
AEROSPACE STUDIES MINOR (18 HOURS)

AS 3312	(3)	Air Force Leadership Studies I
AS 3313	(3)	Air Force Leadership Studies II
AS 4412	(3)	National Security Affairs/ Preparation for Active Duty I
AS 4413	(3)	National Security Affairs/ Preparation for Active Duty II

Select two three-hour courses from the following:

MTH 1125 (4) Calculus I

Area V Requirements

BIO 1101	(3)	Organismal Biology
BIO L101	(1)	Organismal Biology Lab
CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab
IS 2241	(3)	Computer Concepts and Apps.
TROY 1101	(1)	University Orientation

Select one sequence:

PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab
PHY 2253	(3)	General Physics II
PHY L253	(1)	General Physics II Lab
<i>or</i>		
PHY 2262	(3)	Physics I with Calculus
PHY L262	(1)	Physics I with Calculus Lab
PHY 2263	(3)	Physics II with Calculus
PHY L263	(1)	Physics II with Calculus Lab

Major Requirements

BIO 2220	(3)	Principles of Cell Biology
BIO L220	(1)	Principles of Cell Biology Lab
BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3320	(3)	Genetics
BIO L320	(1)	Genetics Lab
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
CHM 3343	(3)	Organic Chemistry II
CHM L343	(1)	Organic Chemistry II Lab
MTH 2210	(3)	Applied Statistics

Select one botany course with its corresponding lab:

BIO 3325	(3)	Plant Form and Function
BIO L325	(1)	Plant Form and Function Lab
BIO 3326	(3)	Plant Diversity
BIO L326	(1)	Plant Diversity Lab
BIO 4402	(4)	Spring Flora
BIO 4425	(4)	Field Botany

Select one zoology course with its corresponding lab:

BIO 3307	(3)	Invertebrate Zoology
BIO L307	(1)	Invertebrate Zoology Lab
BIO 3308	(3)	Vertebrate Zoology
BIO L308	(1)	Vertebrate Zoology Lab
BIO 4405	(3)	Entomology
BIO L405	(1)	Entomology Lab
BIO 4410	(3)	Animal Behavior
BIO L410	(1)	Animal Behavior Lab
BIO 4420	(4)	Field Vertebrate Zoology
BIO 4432	(3)	Comparative Vertebrate Anatomy
BIO L432	(1)	Comparative Vertebrate Anatomy Lab
BIO 4445	(3)	Ichthyology
BIO L445	(1)	Ichthyology Lab
BIO 4446	(3)	Herpetology
BIO L446	(1)	Herpetology Lab
BIO 4447	(3)	Ornithology
BIO L447	(1)	Ornithology Lab
BIO 4448	(3)	Mammalogy
BIO L448	(1)	Mammalogy Lab
BIO 4471	(3)	Parasitology
BIO L471	(1)	Parasitology Lab

Select one ecology/environmental course with its corresponding lab:

BIO 2202	(3)	Principles of Environmental Science
BIO L202	(1)	Principles of Environmental Science Lab
BIO 4413	(3)	Limnology
BIO L413	(1)	Limnology Lab
BIO 4416	(3)	Microbial Ecology
BIO L416	(1)	Microbial Ecology Lab
BIO 4421	(3)	Population Ecology
BIO L421	(1)	Population Ecology Lab
BIO 4479	(3)	Environmental Assessment
BIO L479	(1)	Environmental Assessment Lab

Select one physiology/cell/molecular course with its corresponding lab:

BIO 3347	(3)	Human Anatomy and Physiology I
BIO L347	(1)	Human Anatomy and Physiology I Lab
BIO 3348	(3)	Human Anatomy and Physiology II
BIO L348	(1)	Human Anatomy and Physiology II Lab
BIO 3382	(3)	Immunology
BIO L382	(1)	Immunology Lab
BIO 3386	(3)	Hematology
BIO L386	(1)	Hematology Lab
BIO 4414	(3)	Food Microbiology
BIO L414	(1)	Food Microbiology Lab

BIO 4430	(3)	Applied Genetics
BIO L430	(1)	Applied Genetics Lab
BIO 4433	(3)	Embryology
BIO L433	(1)	Embryology Lab
BIO 4451	(3)	Toxicology
BIO L451	(1)	Toxicology Lab
BIO 4478	(3)	Cell Biology
BIO L478	(1)	Cell Biology Lab
BIO 4480	(3)	Histology
BIO L480	(1)	Histology Lab
BIO 4482	(3)	Molecular Biology
BIO L482	(1)	Molecular Biology Lab

Select one upper-level adviser-approved biology course and its corresponding lab.

BIOLOGY MINOR (18-20 HOURS)

Lectures and the corresponding labs must be taken together:

BIO 1101	(3)	Organismal Biology
BIO L101	(1)	Organismal Biology Lab
BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3320	(3)	Genetics
BIO L320	(1)	Genetics Lab

Select one course with its corresponding lab:

BIO 2220	(3)	Principles of Cell Biology
BIO L220	(1)	Principles of Cell Biology Lab
BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab

Select 2-4 additional semester hours of approved upper-level (3300 or above) biology courses with corresponding labs.

BIOLOGY PROGRAM (55 HOURS)

Specialized General Studies Requirements

BIO 1100	(3)	Principles of Biology
BIO L100	(1)	Principles of Biology Lab
CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
MTH 1125	(4)	Calculus I

Area V Requirements

IS 2241	(3)	Computer Concepts and Apps.
TROY 1101	(1)	University Orientation
BIO 1101	(3)	Organismal Biology
BIO L101	(1)	Organismal Biology Lab
CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab

Select one sequence (physics sequence not required for medical technology concentration):

PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab
PHY 2253	(3)	General Physics II
PHY L253	(1)	General Physics II Lab

or

PHY 2262	(3)	Physics I with Calculus
PHY L262	(1)	Physics I with Calculus Lab

PHY 2263	(3)	Physics II with Calculus
PHY L263	(1)	Physics II with Calculus Lab

Requirements

BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3320	(3)	Genetics

BIOLOGY, PREPROFESSIONAL MAJOR (55 HOURS)**Specialized General Studies Requirements**

BIO 1100	(3)	Principles of Biology
BIO L100	(1)	Principles of Biology Lab
CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
MTH 1125	(4)	Calculus I

Area V Requirements (20 Hours)

BIO 1101	(3)	Organismal Biology
BIO L101	(1)	Organismal Biology Lab
CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab
IS 2241	(3)	Computer Concepts and Applications
TROY 1101	(1)	University Orientation

Select one sequence (physics sequence not required for medical technology concentration):

PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab
PHY 2253	(3)	General Physics II
PHY L253	(1)	General Physics II Lab
<i>or</i>		
PHY 2262	(3)	Physics I with Calculus
PHY L262	(1)	Physics I with Calculus Lab
PHY 2263	(3)	Physics II with Calculus
PHY L263	(1)	Physics II with Calculus Lab

Requirements for the major

Lectures and their corresponding labs must be taken together.

BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3320	(3)	Genetics
BIO L320	(1)	Genetics Lab
BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
CHM 3343	(3)	Organic Chemistry II
CHM L343	(1)	Organic Chemistry II Lab
MTH 2210	(3)	Applied Statistics

Select 32 semester hours from the courses listed below:

CHM 3343	(3)	Organic Chemistry II	CHM L343	(1)	Organic Chemistry II Lab
CHM L343	(1)	Organic Chemistry II Lab	CHM 3381	(3)	Physical Chemistry I
CHM 3381	(3)	Physical Chemistry I	CHM L381	(1)	Physical Chemistry I Lab
CHM L381	(1)	Physical Chemistry I Lab	CHM 3382	(3)	Physical Chemistry II
CHM 3382	(3)	Physical Chemistry II	CHM 4444	(3)	Advanced Inorganic Chemistry
CHM 4444	(3)	Advanced Inorganic Chemistry	CHM 4445	(3)	Instrumental Analysis
CHM 4445	(3)	Instrumental Analysis	CHM L445	(1)	Instrumental Analysis Lab
CHM L445	(1)	Instrumental Analysis Lab	MTH 1126	(4)	Calculus II
MTH 1126	(4)	Calculus II			

Select 3 hours of chemistry electives:

CHM 3352	(3)	Biochemistry
CHM L352	(1)	Biochemistry Lab
CHM L382	(1)	Physical Chemistry II Lab
CHM 4400	(3)	Special Topics
CHM 4403	(3)	Advanced Organic Chemistry
CHM L444	(1)	Advanced Inorganic Chemistry Lab
CHM 4491/2	(1-3)	Guided Independent Research
CHM 4493/4	(1-3)	Guided Independent Study
CHM 4499	(1)	Senior Research Seminar

Select one series:

PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab
PHY 2253	(3)	General Physics II

CHEMISTRY MINOR (20 HOURS)

CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
CHM 3343	(3)	Organic Chemistry II
CHM L343	(1)	Organic Chemistry II Lab

Select four additional hours of advanced chemistry courses, such as

CHM 2242/L242	Analytical Chemistry and lab
CHM 3352 / L352	Biochemistry and Lab

Note: The chemistry minor requires 20 hours in addition to the hours required for a major in another discipline. For example, the biology major requires Organic Chemistry II and lab, so a student majoring in biology would need to select eight, not four, additional hours of advanced chemistry courses.

CHEMISTRY PROGRAM (51 HOURS)**Specialized General Studies Requirements**

BIO 1100	(3)	Principles of Biology
BIO L100	(1)	Principles of Biology Lab
CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
MTH 1125	(4)	Calculus I

Chemistry, Mathematics, and Physics Core Courses

CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab
CHM 2242	(3)	Analytical Chemistry
CHM L242	(1)	Analytical Chemistry Lab
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
CHM 3343	(3)	Organic Chemistry II

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Select two of the following:

CS 3320	(3)	Business Systems Programming
CS 3325	(3)	Operations Research
CS 3331	(3)	Fundamentals of Artificial Intelligence
CS 3361	(3)	Concepts of Objected Oriented Programming II
CS 4401	(3)	Advanced Artificial Intelligence
CS 4443	(3)	Web Based Software Development
CS 4447	(3)	Systems Analysis and Design
CS 4451	(3)	Computer Security and Reliability
CS 4461	(3)	Software Engineering II
CS 4462	(3)	Special Topics in Object-Oriented Technology
CS 4495	(3)	Special Topics in Computer Science

**COMPUTER SCIENCE, APPLIED MAJOR
(36 HOURS)**

Specialized General Studies Requirements

MTH 2201	(3)	Business Calculus
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CRIMINAL JUSTICE MAJOR (36 HOURS)

Criminal justice majors are encouraged to take two semesters of Spanish or another foreign language as part of their general studies requirements.

CJ 1101	(3)	Introduction to Criminal Justice
CJ 2221	(3)	Survey of Law Enforcement
CJ 2231	(3)	Survey of Corrections
CJ 2241	(3)	Survey of Law and Criminal Procedure
CJ 3345	(3)	Criminology
CJ 3352	(3)	Constitutional Law
CJ 3375	(3)	Introduction to Social Scientific Inquiry
CJ 4499	(3)	Senior Seminar

Select A or B below:

A. 12 additional hours of advanced or upper-level criminal justice courses, as approved by the adviser,

or

B. Homeland Security Concentration. Select 12 additional hours from the following as approved by the adviser:

CJ 3335	(3)	Private and Public Security Administration
CJ 4435	(3)	Grant Writing
CJ 4440	(3)	Terrorism
CJ 4470	(3)	Criminal Justice Issues in Homeland Security
CJ 4472	(3)	Cyber Crime
CJ 4488	(3)	Internship (limit 1)
POL 3364	(3)	State and Local Politics
POL 4422	(3)	Public Policy Making

CRIMINAL JUSTICE MINOR (18 HOURS)

CJ 1101	(3)	Introduction to Criminal Justice
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Select 15 additional hours of upper-level criminal justice courses as approved by the adviser.

EARTH AND SPACE STUDIES MINOR (18 HOURS)

SCI 3335	(3)	Physical Geology
SCI L335	(1)	Physical Geology Lab
SCI 3336	(3)	Astronomy
SCI 3340	(3)	Marine Science
SCI L340	(1)	Marine Science Lab
SCI 3350	(3)	Weather and Climate
SCI L350	(1)	Weather and Science Lab
SCI 4403	(3)	Conservation

ENGLISH MAJOR (36 HOURS)**Area V Requirements**

ENG 2211	(3)	American Literature before 1875
ENG 2212	(3)	American Literature after 1875
ENG 2244	(3)	British Literature before 1785
ENG 2245	(3)	British Literature after 1785
IS 2241	(3)	Computer Concepts and Applications
TROY 1101	(1)	University Orientation

Major Requirements

ENG 3341	(3)	Advanced Grammar
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Select an additional 33 hours of upper division courses, at least nine of which are at the 4000 level or ab5(f)-1(oA1.26 -1.2 TD-0.0006 Tc0.00tr.23

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Select an additional six hours from the following:

ENG 3320	(3)	Introduction to Linguistics
ENG 3351	(3)	Creative Writing I
ENG 3352	(3)	Creative Writing II
ENG 4400	(3)	Selected Topics
ENG 4405	(3)	History of the English Language
ENG 4419	(3)	Advanced Writing
ENG 4488	(3)	Seminar in Professional Writing Portfolio Design
ENG 4490	(3)	Professional Writing Internship

**ENGLISH—LANGUAGE ARTS PROGRAM
(139 HOURS)**

Students seeking Alabama teacher certification should complete the English major and the required courses for language arts, in addition to selecting education as a second major. Students should consult their advisers concerning all certification requirements.

Specialized General Studies Requirements

See the general studies section of this catalog for additional information.

COM 2241	(3)	Fundamentals of Speech
DRA 2200	(2)	Introduction to Drama
ENG 2205	(3)	World Literature before 1660
ENG 2206	(3)	World Literature after 1660

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ENG 1102 (3) Composition and Modern English II

Select one:

ART 1133 (2) Visual Arts
 DRA 2200 (2) Introduction to Drama
 MUS 1131 (2) Music Appreciation

Select one:

ENG 2205 (3) World Literature before 1660
 ENG 2206 (3) World Literature after 1660
 ENG 2211 (3) American Literature before 1875
 ENG 2212 (3) American Literature after 1875
 ENG 2244 (3) British Literature before 1785
 ENG 2245 (3) British Literature after 1785

Select one:

MTH 1110 (3) Finite Mathematics
 MTH 1112 (3) Pre-calculus Algebra

Select one science course and corresponding lab:

BIO 1100 (3) Principles of Biology
 BIO L100 (1) Principles of Biology Lab
 SCI 2233 (3) Physical Science
 SCI L233 (1) Physical Science Lab
 SCI 2234 (3) Earth and Space Science
 SCI L234 (1) Earth and Space Science Lab

Select one:

HIS 1101 (3) Western Civilization I
 HIS 1102 (3) Western Civilization II
 HIS 1111 (3) U.S. to 1877
 HIS 1112 (3) U.S. since 1877
 HIS 1122 (3) World History to 1500
 HIS 1123 (3) World History from 1500

COM 1110 (3) Effective Communication
 (Montgomery campus only)
 IS 2241 (3) Computer Concepts and Applications
 TROY 1101 (1) University Orientation

Select any minor or area of concentration.

Select additional free electives to complete a total of 60 hours.

**GEOGRAPHIC INFORMATION SYSTEMS (GIS)
 MINOR (18 HOURS)**

GEM 3390 (3) Introduction to GIS
 GEM L390 (1) Introduction to GIS Lab

18(1) Introduction to GIS (GEM 3390)-3273.4((3))-2580(Introduction to)6.5()6.6(GIS)TJ0 -1.

Area V Requirements

GEO	2210	(3)	World Regional Geography
HIS	1111	(3)	U.S. to 1877, or placement
HIS	1112	(3)	U.S. since 1877, or placement
IS	2241	(3)	Computer Concepts and Apps.
TROY	1101	(1)	University Orientation

Requirements for the Major

HIS 3375	(3)	Research and Methodology
HIS 4490	(3)	Senior Seminar

Select one emphasis:

•

Select 15 hours of upper-level American/Latin American courses in addition to either HIS 3316 or 4406.

Select an additional 9 hours of upper-level European/Asian/African courses in addition to HIS 4451.

•

Select 15 hours of upper-level European/Asian/African courses in

HOMELAND SECURITY MINOR (18 HOURS)

CJ 1101	(3)	Introduction to Criminal Justice
<i>Select 15 additional hours from the following as approved by the adviser:</i>		
CJ 3335	(3)	Private and Public Security Administration
CJ 4435	(3)	Grant Writing
CJ 4440	(3)	Terrorism
CJ 4470	(3)	Criminal Justice Issues in Homeland Security
CJ 4472	(3)	Cyber Crime
CJ 4488	(3)	Internship (limit one)
POL 3364	(3)	State and Local Politics
POL 4422	(3)	Public Policy Making

Note: This minor is not available to criminal justice majors.

HUMANITIES MINOR (18 HOURS)

ART 3302	(3)	History of the Arts
CLA 2260	(3)	Classical Mythology
CLA 2290	(3)	Classical Literature in English Translation
PHI 2203	(3)	Introduction to Philosophy
PHI 3301	(3)	Western Philosophy
REL 2280	(3)	World Religions

LEADERSHIP STUDIES MINOR (18 HOURS)

LDR 1100	(3)	Introduction to Leadership
LDR 2200	(3)	Tools for Leaders
LDR 3300	(3)	Leadership Theory
LDR 4400	(3)	Leadership Seminar
<i>Select at least an additional six hours from the following:</i>		
AS 3312	(3)	Air Force Leadership Studies I
AS 3313	(3)	Air Force Leadership Studies II
COM 3326	(3)	Conflict Management
COM 3345	(3)	Group Discussion and Leadership
COM 4426	(3)	Organizational Communication
SED 4400	(3)	Secondary Classroom Management
HIS 3304	(3)	Military History of the United States
HIS 3315	(3)	Vietnam War
HIS 3318	(3)	History of American Women
IDS 2200	(3)	Interdisciplinary Studies
LDR 4402	(2)	Leadership Field Experiences
LDR 4493-94	(1-3)	Guided Independent Study
MGT 3371	(3)	Principles of Management and Organizational Behavior
MGT 3375	(3)	Human Resources Management
MGT 4472	(3)	Organizational Behavior
MSL 2201	(2)	Individual Leadership Studies
MSL 2202	(2)	Leadership and Teamwork
MSL 2204	(2)	Leadership Lab
PHI 2204	(3)	Ethics and the Modern World
POL 3340	(3)	U.S. Government – Executive Branch
POL 3364	(3)	State and Local Politics

POL 4421	(3)	Introduction to Public Administration
PSY 4410	(3)	Business and Industrial Psychology
SOC 3301	(3)	Social Change in the Information Age
SOC 3310	(3)	Minorities in U.S. Social Structure
SS 4498	(3)	Social Science Theory

MARINE BIOLOGY PROGRAM (55 HOURS)

Students must take courses at both Troy University and Dauphin Island Sea Lab.

Specialized General Studies Requirements

BIO 1100	(3)	Principles of Biology
BIO L100	(1)	Principles of Biology Lab
CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
MTH 1125	(4)	Calculus I

Area V Requirements

IS 2241	(3)	Computer Concepts and Apps.
TROY 1101	(1)	University Orientation
BIO 1101	(3)	Organismal Biology
BIO L101	(1)	Organismal Biology Lab
CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab

Select one sequence (physics sequence not required for medical technology concentration):

PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab
PHY 2253	(3)	General Physics II
PHY L253	(1)	General Physics II Lab
or		
PHY 2262	(3)	Physics I with Calculus
PHY L262	(1)	Physics I with Calculus Lab
PHY 2263	(3)	Physics II with Calculus
PHY L263	(1)	Physics II with Calculus Lab

Requirements for the Program

Lectures and the corresponding labs must be taken together.

BIO 2220	(3)	Principles of Cell Biology
BIO L220	(1)	Principles of Cell Biology Lab
BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3320	(3)	Genetics
BIO L320	(1)	Genetics Lab
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
CHM 3343	(3)	Organic Chemistry II
CHM L343	(1)	Organic Chemistry II Lab
MTH 2210	(3)	Applied Statistics

Troy University Courses:

BIO 3307	(3)	Invertebrate Zoology
BIO L307	(1)	Invertebrate Zoology Lab

Select three additional upper-level adviser-approved biology courses (12 SH). Lectures and

Requirements for the Major

SS 3375	(3)	Introduction to Social Scientific Inquiry
SS 3376	(3)	Application of Social Scientific Inquiry
SS 4498	(3)	Social Science Theory
SS 4499	(3)	Senior Seminar

Select one concentration:

ANT 3310	(3)	Cultural Anthropology
ANT 3311	(3)	Physical Anthropology

Select at least 18 hours of additional 3000/4000-level anthropology courses as approved by your faculty adviser.

Select at least 24 hours of additional 3000/4000-level courses from anthropology, economics, geography, history, political science, psychology or sociology (six hours may be used from ECO 2251, ECO 2252, GEO 2210, ANT 2200, POL 2260 [World Politics], or SOC 2230) in at least three disciplines.

GEO 3300	(3)	Principles of Physical Geography
GEO 3301	(3)	Principles of Cultural Geography

Select at least 18 hours of additional 3000/4000-level courses as approved by your faculty adviser:

LDR 1100	(3)	Introduction to Leadership
LDR 4400	(3)	Leadership Seminar*

*Requires approval of the Director of the Institute of Leadership Development

Select an additional 18 hours from the following:

AS 3312	(3)	Air Force Leadership Studies I
AS 3313	(3)	Air Force Leadership Studies II
COM 3345	(3)	Group Discussion and Leadership
HIS 4415	(3)	Contemporary America
MGT 3371	(3)	Principles of Management and Organizational Behavior
MGT 3375	(3)	Human Resources Management
MSL 2202	(2)	Leadership and Teamwork
MSL 2204	(1)	Leadership Lab
POL 4422	(3)	Public Policy Making
POL 3351	(3)	Foundations of International Relations
POL 4421	(3)	Introduction to Public Administration
PSY 4410	(3)	Business and Industrial Psychology
SOC 3301	(3)	Social Change in the Information Age
SOC 3302	(3)	Sociology of Small Groups

Select at least 24 hours of additional 3000/4000-level sociology courses as approved by your faculty adviser.

SOCIAL SCIENCE MINOR: GENERAL SOCIAL SCIENCE (18 HOURS)

SS 4498	(3)	Social Science Theory
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Select an additional 15 hours from at least three of the following: anthropology, economics, geography, history, political science, psychology, social science, or sociology. At least 12 hours must be 3000/4000 level.

SOCIOLOGY MAJOR (36 HOURS)**Area V Requirements**

IS 2241	(3)	Computer Concepts and Applications
TROY 1101	(1)	University Orientation
ANT 2200	(3)	Anthropology
SOC 2230	(3)	Social Problems in Contemporary Society
SOC 2275	(3)	Introduction to Sociology

Requirements for the Major

SOC 3300	(3)	Social Institutions
SOC 4420	(3)	Sociological Theory
SS 3376	(3)	Application of Social Scientific Inquiry

Select an additional 27 hours of approved upper-level sociology courses.

SOCIOLOGY MINOR (18 HOURS)

ANT 2200	(3)	Anthropology
SOC 2230	(3)	Social Problems in Contemporary Society

Select an additional 12 hours of approved, upper-level sociology courses.

SURVEYING AND GEOMATICS SCIENCES MAJOR (47 HOURS)**Specialized General Studies Requirements**

Select the following in lieu of ART 1133:

ART 2201	(3)	Introductory Drawing
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Select remaining Area II courses as specified in the General Studies section of this catalog.

BIO 1100	(3)	Principles of Biology
BIO L100	(1)	Principles of Biology Lab
PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab
MTH 1125	(4)	Calculus I

ECO 2251	(3)	Principles of Macroeconomics
ECO 2252	(3)	Principles of Microeconomics

Select one history sequence as specified in the General Studies section of this catalog.

Area V Requirements

IS 2241	(3)	Computer Concepts and Apps.
TROY 1101	(1)	University Orientation
CS 2250	(3)	Computer Science I
MTH 2210	(3)	Applied Statistics
MTH 1126	(4)	Calculus II
PHY 2253	(3)	General Physics II
PHY L253	(1)	General Physics II Lab

Major Requirements

GEM 2200	(3)	Basics of Cartography and Surveying
GEM L220	(1)	Basics of Cartography and Surveying Lab
GEM 3309	(3)	Land Parcel Administration and Law
GEM L309	(1)	Land Parcel Administration and Law Lab
GEM 3310	(3)	Land Surveying Practice
GEM L310	(1)	Boundary Retracement Lab
GEM 3330	(3)	Advanced Measurement Analysis
GEM L330	(1)	Advanced Measurement Analysis Lab
GEM 3366	(3)	Photogrammetry and Remote Sensing
GEM L366	(1)	Photogrammetry and Remote Sensing Lab
GEM 3370	(3)	Geodesy and Geodesics
GEM L370	(1)	Geodesy and Geodesics Lab
GEM 3379	(3)	Introduction to Least Squares Adjustment
GEM L379	(1)	Introduction to Least Squares Adjustment Lab
GEM 3390	(3)	Intro to GIS
GEM L390	(1)	Intro to GIS Lab
GEM 3391	(3)	Applications of GIS
GEM L391	(1)	Applications of GIS Lab
GEM 4405	(2)	Route and Construction Survey
GEM L405	(1)	Route and Construction Survey Lab
GEM 4407	(1)	Land Dev6.6(Lab)†yI5089 7 GEM 86.8()on Lab