The College of Arts and Sciences is, from both historical and functional points of view, the core of the modern university. The College of Arts and Sciences views creativity, inquiry and understanding as among the greatest values in human experience. Thus, it is dedicated to the questioning, creation and transmission of knowledge; to the provision of undergraduate and graduate educational programs that are responsive to the need for an enlightened and productive citizenry; and to the provision of programs and services that enhance the quality of life of the people it serves. These goals compel a commitment to creativity and inquiry free of bias and based upon the principles of objective scholarship. They require a responsibility to promote and convey those elements of

the liberal arts and sciences that must be essential components of the educational goals of all units of the university. The college seeks richness through diversity of its programs and strength through erudition.

In addition to general studies courses, major courses and minor courses, sufficient free electives should be chosen to total at least 120 hours.

As part of ongoing planning and evaluation, the College of Arts and Sciences regularly evaluates student learning outcomes for each degree program.

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 upper-level political science

NTHROPOLOGY MINOR (18 HOURS)

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

Select at least 12 hours of additional 3000/4000-level anthropology courses as approved by your faculty adviser.

	ARCHIVAL ST	TUDIES MINOR (18 HOURS)
HIS 3360	(3)	Introduction to Archives: Theory and Issues
HIS 3362	(3)	Archival Methods and Practice
HIS 4472	(3)	Records Management
HIS 4473	(3)	Archives Practicum

Select two courses from the following, including at least one at the 4000 level:

should consult with their advisers concerning all certification requirements.

Specialized General Studies Requirements

General studies requirements for the biology, environmental science, biomedical sciences, and marine biology programs and the biology major total 64 semester hours. See the General Studies section of this catalog for complete general studies information.

Areann		
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 Require	ements	
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 sequ	ence:	
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

(1)

PHY L263

Major Require	ments	
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

Physics II 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
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

Students in the general biology concentration, ecology and field biology concentration, or medical technology concentration select:

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

Students in the biomedical sciences concentration or food safety concentration, select:

BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab

Select one of the five concentrations shown below (biomedical sciences, food safety, general biology, ecology and field biology, or medical technology):

· Biomedical Sciences Concentration

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 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
BIO 4482	(3)	Molecular Biology
BIO L482	(1)	Molecular Biology Lab

Select 16 hours (four lectures with labs) from the courses listed below. With the adviser's approval, one upper level botany, ecology or zoology course with its corresponding laboratory course may be taken.

BIO 3382	(3)	Immunology	
BIO L382	(1)	Immunology Lab	
BIO 4416	(3)	Microbial Ecology	
BIO L416	(1)	Microbial Ecology Lab	
BIO 4430	(3)	Applied Genetics	
BIO L430	(1)	Applied Genetics Lab	
BIO 4451	(3)	Toxicology	
BIO L451	(1)	Toxicology Lab	
BIO 4471	(3)	Parasitology	
BIO L471	(1)	Parasitology Lab	
BIO 4480	(3)	Histology	
BIO L480	(1)	Histology Lab	
CHM 3352	(3)	Biochemistry	
CHM L352	(1)	Biochemistry Lab	
		v	

· Food Safety Concentration

BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
BIO 4414	(3)	Food Microbiology
BIO L414	(1)	Food Microbiology Lab
BIO 4451	(3)	Toxicology
BIO L451	(1)	Toxicology Lab
BIO 4418	(3)	Food Laws and Regulations
CHM 3352	(3)	Biochemistry
CHM L352	(1)	Biochemistry Lab
MGT 4466	(3)	Restaurant Management
NSG 2211	(3)	Human Nutrition

Select 7 or more hours from the courses listed below. Lectures and their corresponding labs must be taken together.

BIO 3382	(3)	Immunology
BIO L382	(1)	Immunology Lab
BIO 4416	(3)	Microbial Ecology
BIO L416	(1)	Microbial Ecology Lab
BIO 4471	(3)	Parasitology
BIO L471	(1)	Parasitology Lab
BIO 4478	(3)	Cell Biology
BIO L478	(1)	Cell Biology Lab
BIO 4482	(3)	Molecular Biology
BIO L482	(1)	Molecular Biology Lab
BIO 4488/4489/4	490	(1-8) Internship in the Biological or Environmental Sciences
CHM 4455	(3)	Instrumental Analysis
CHM L455	(1)	Instrumental Analysis Lab
MGT 3372	(3)	Hospitality Management
MGT 4465	(3)	Food and Beverage Service

· General Biology Concentration

Select one	botany course with	h 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:

	ω	1 0
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:

ICC.		
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 Labcell/mol

BIOLOGY, PREPROFESSIONAL MAJOR (55 HOURS) Specialized General Studies Requirements Area III (12 Hours) BIO 1100 (3) Principles of Biology BIO L100 (1) Principles of Biology Lab CHM 1142 (3) General Chemistry I BIO 4433 (3) Embryology CHM 1142 (1) General Chemistry I Lab BIO 4451 (3) Embryology Lab CHM L142 (1) General Chemistry I Lab BIO 4471 (3) Parasitology Area V Requirements (20 Hours) BIO L101 (3) Organismal Biology BIO L471 (1) Parasitology BIO L471 (1) Parasitology Area V Requirements (20 Hours) BIO L471 (1) Parasitology BIO L471 (1) Parasitology BIO L471 (1) Parasitology BIO L471 (1) Parasitology BIO L478 (3) Cell Biology BIO L478 (1) Cell Biology CHM L143 (1) General Chemistry II Lab BIO 4480 (3) Histology CHM L143 (1) General Chemistry II Lab BIO L480 (1) Histology Applications BIO L482 (1) Molecular Biology BIO L482 (1) Molecular Biology Lab TROY 1101 (1) University Orientation CHM 13352 (3) Biochemistry Lab
Area III (12 Hours) BIO 1100 (3) Principles of Biology BIO L100 (1) Principles of Biology Lab CHM 1142 (3) General Chemistry I BIO 4433 (3) Embryology CHM 1142 (1) General Chemistry I BIO 4451 (3) Toxicology MTH 1125 (4) Calculus I BIO 4471 (3) Parasitology Area V Requirements (20 Hours) BIO 1101 (3) Organismal Biology BIO L471 (1) Parasitology Lab CHM 1143 (3) General Chemistry II BIO 1478 (3) Cell Biology BIO L478 (1) Cell Biology Lab CHM 1143 (3) General Chemistry II BIO 4480 (3) Histology CHM L143 (1) General Chemistry II Lab BIO 4480 (3) Histology CHM L143 (1) General Chemistry II Lab BIO 1482 (3) Molecular Biology BIO L482 (1) Molecular Biology Lab TROY 1101 (1) University Orientation CHM 3352 (3) Biochemistry CHM L3352 (1) Biochemistry Lab
Area III (12 Hours) BIO 1100 (3) Principles of Biology BIO L100 (1) Principles of Biology Lab BIO L433 (3) Embryology CHM 1142 (3) General Chemistry I BIO L433 (1) Embryology Lab CHM L142 (1) General Chemistry I Lab MTH 1125 (4) Calculus I BIO L451 (1) Toxicology MTH 1125 (4) Calculus I BIO L451 (1) Toxicology Lab BIO 1101 (3) Organismal Biology BIO L471 (1) Parasitology BIO L471 (1) Parasitology Lab BIO L101 (1) Organismal Biology Lab BIO L478 (3) Cell Biology BIO L478 (1) Cell Biology Lab CHM 1143 (3) General Chemistry II BIO 4480 (3) Histology CHM L143 (1) General Chemistry II Lab BIO L480 (1) Histology Lab IS 2241 (3) Computer Concepts and Applications BIO L482 (1) Molecular Biology Lab TROY 1101 (1) University Orientation CHM 3352 (3) Biochemistry CHM L3352 (1) Biochemistry Lab
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 BIO L451 (1) Toxicology BIO L471 (3) Parasitology Area V Requirements (20 Hours) BIO 1101 (3) Organismal Biology BIO L471 (1) Parasitology Lab BIO L478 (3) Cell Biology BIO L478 (1) Cell Biology Lab CHM 1143 (3) General Chemistry II CHM L143 (1) General Chemistry II Lab BIO L480 (1) Histology Lab IS 2241 (3) Computer Concepts and Applications BIO L482 (1) Molecular Biology Lab TROY 1101 (1) University Orientation CHM L3352 (1) Biochemistry Lab
BIO L100 (1) Principles of Biology Lab CHM 1142 (3) General Chemistry I BIO L433 (1) Embryology Lab CHM L142 (1) General Chemistry I Lab BIO 4451 (3) Toxicology MTH 1125 (4) Calculus I BIO L451 (1) Toxicology Lab BIO 4471 (3) Parasitology Area V Requirements (20 Hours) BIO 1101 (3) Organismal Biology BIO 4478 (3) Cell Biology BIO L101 (1) Organismal Biology Lab CHM 1143 (3) General Chemistry II BIO 4480 (3) Histology CHM L143 (1) General Chemistry II Lab BIO L480 (1) Histology Lab IS 2241 (3) Computer Concepts and Applications BIO L482 (1) Molecular Biology Lab TROY 1101 (1) University Orientation CHM L3352 (1) Biochemistry Lab
CHM 1142 (3) General Chemistry I BIO L433 (1) Embryology Lab CHM L142 (1) General Chemistry I Lab BIO 4451 (3) Toxicology MTH 1125 (4) Calculus I BIO L451 (1) Toxicology Lab BIO 4471 (3) Parasitology Area V Requirements (20 Hours) BIO L471 (1) Parasitology Lab BIO 1101 (3) Organismal Biology BIO 4478 (3) Cell Biology BIO L101 (1) Organismal Biology Lab CHM 1143 (3) General Chemistry II BIO 4480 (3) Histology CHM L143 (1) General Chemistry II Lab BIO L480 (1) Histology Lab IS 2241 (3) Computer Concepts and Applications BIO L482 (3) Molecular Biology Lab TROY 1101 (1) University Orientation CHM 3352 (3) Biochemistry CHM L3352 (1) Biochemistry Lab
CHM L142 (1) General Chemistry I Lab MTH 1125 (4) Calculus I BIO 4451 (1) Toxicology BIO L451 (1) Toxicology Lab BIO 4471 (3) Parasitology Area V Requirements (20 Hours) BIO 1101 (3) Organismal Biology BIO L101 (1) Organismal Biology Lab BIO L478 (1) Cell Biology BIO L478 (1) Cell Biology Lab CHM 1143 (3) General Chemistry II BIO 4480 (3) Histology CHM L143 (1) General Chemistry II Lab BIO L480 (1) Histology Lab IS 2241 (3) Computer Concepts and Applications BIO L482 (3) Molecular Biology Lab TROY 1101 (1) University Orientation CHM 3352 (3) Biochemistry CHM L3352 (1) Biochemistry Lab
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Area V Requirements (20 Hours) BIO 1471 (1) Parasitology BIO 1101 (3) Organismal Biology BIO 4478 (3) Cell Biology BIO L101 (1) Organismal Biology Lab CHM 1143 (3) General Chemistry II BIO 4480 (3) Histology CHM L143 (1) General Chemistry II Lab BIO L480 (1) Histology Lab IS 2241 (3) Computer Concepts and Applications BIO L482 (3) Molecular Biology TROY 1101 (1) University Orientation CHM 13352 (3) Biochemistry CHM L3352 (1) Biochemistry Lab
Area V Requirements (20 Hours) BIO 1101 (3) Organismal Biology BIO L101 (1) Organismal Biology Lab CHM 1143 (3) General Chemistry II BIO L480 (1) Histology Lab CHM L143 (1) General Chemistry II Lab IS 2241 (3) Computer Concepts and Applications TROY 1101 (1) University Orientation BIO L471 (1) Parasitology Lab BIO 4478 (3) Cell Biology Lab (1) Histology (1) Histology Lab Molecular Biology Molecular Biology Applications CHM 3352 (3) Biochemistry CHM L3352 (1) Biochemistry Lab
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CHM L143 (1) General Chemistry II Lab BIO L480 (1) Histology Lab IS 2241 (3) Computer Concepts and Applications BIO L482 (3) Molecular Biology Lab TROY 1101 (1) University Orientation CHM 3352 (3) Biochemistry CHM L3352 (1) Biochemistry Lab
IS 2241 (3) Computer Concepts and Applications BIO 4482 (3) Molecular Biology Applications BIO L482 (1) Molecular Biology Lab TROY 1101 (1) University Orientation CHM 3352 (3) Biochemistry CHM L3352 (1) Biochemistry Lab
Applications BIO L482 (1) Molecular Biology Lab TROY 1101 (1) University Orientation CHM 3352 (3) Biochemistry CHM L3352 (1) Biochemistry Lab
TROY 1101 (1) University Orientation CHM 3352 (3) Biochemistry CHM L3352 (1) Biochemistry Lab
CHM L3352 (1) Biochemistry Lab
Select one sequence (physics sequence not required for medical
technology concentration): CHEMISTRY EDUCATION
PHY 2252 (3) General Physics I Students seeking Alabama teacher certification should select
PHY L252 (1) General Physics I Lab chemistry as a first major and education as a second major. Si
PHY 2253 (3) General Physics II dents should consult with their advisers concerning all certific
PHY L253 (1) General Physics II Lab requirements. CHM 3352 is required for Alabama teacher cer
or cation.
PHY 2262 (3) Physics I with Calculus
PHY L262 (1) Physics I with Calculus Lab CHEMISTRY MAJOR (37 HOURS)
PHY 2263 (3) Physics II with Calculus Specialized General Studies Requirements
PHY L263 (1) Physics II with Calculus Lab Area III
BIO 1100 (3) Principles of Biology
Requirements for the major BIO L100 (1) Principles of Biology Lab
Lectures and their corresponding labs must be taken together. CHM 1142 (3) General Chemistry I
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DIO 2229 (3) General Ecology (AM) L142 (1) General Chemistry I Lab
BIO 2229 (3) General Ecology CHM L142 (1) General Chemistry I Lab BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry I Lab
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Select one series:
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Select one series: CHM L343 (1) Organic Chemistry II Lab PHY 2252 (3) General Physics I
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Select one series: CHM 3343 (3) Organic Chemistry II Defect one series: CHM L343 (1) Organic Chemistry II Lab PHY 2252 (3) General Physics I MTH 2210 (3) Applied Statistics PHY L252 (1) General Physics I Lab
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Select one series: CHM 3343 (3) Organic Chemistry II Defect one series: CHM L343 (1) Organic Chemistry II Lab PHY 2252 (3) General Physics I MTH 2210 (3) Applied Statistics PHY L252 (1) General Physics II
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Select one series: CHM 3343 (3) Organic Chemistry II Select one series: CHM L343 (1) Organic Chemistry II Lab PHY 2252 (3) General Physics I MTH 2210 (3) Applied Statistics PHY L252 (1) General Physics II Select 32 semester hours from the courses listed below: PHY L253 (1) General Physics II Lab
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Select one series: CHM 3343 (3) Organic Chemistry II Select one series: CHM L343 (1) Organic Chemistry II Lab PHY 2252 (3) General Physics I MTH 2210 (3) Applied Statistics PHY L252 (1) General Physics I Lab Select 32 semester hours from the courses listed below: BIO 3347 (3) Human Anatomy and Physiology I or
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (1) Microbiology Lab TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry I Lab CHM 3343 (3) Organic Chemistry II Select one series: CHM L343 (1) Organic Chemistry II Lab PHY 2252 (3) General Physics I MTH 2210 (3) Applied Statistics PHY L252 (1) General Physics I Lab PHY 2253 (3) General Physics II Select 32 semester hours from the courses listed below: BIO 3347 (3) Human Anatomy and Physiology I BIO L347 (1) Human Anatomy and Physiology I PHY 2262 (3) Physics with Calculus I
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology Is 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Lab CHM 3343 (3) Organic Chemistry II Select one series: CHM L343 (1) Organic Chemistry II Lab MTH 2210 (3) Applied Statistics PHY L252 (1) General Physics I Lab PHY 2253 (3) General Physics II Select 32 semester hours from the courses listed below: BIO 3347 (3) Human Anatomy and Physiology I BIO L347 (1) Human Anatomy and Physiology I BIO L347 (1) Human Anatomy and Physiology I BIO L347 (1) Physics with Calculus I PHY L262 (1) Physics with Calculus I Lab
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Select one series: CHM 3343 (3) Organic Chemistry II Select one series: CHM L343 (1) Organic Chemistry II Lab PHY 2252 (3) General Physics I MTH 2210 (3) Applied Statistics PHY L252 (1) General Physics II Lab BIO 3347 (3) Human Anatomy and Physiology I PHY L262 (3) Physics with Calculus I BIO 3348 (3) Human Anatomy and Physiology II PHY 2263 (3) Physics with Calculus II
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Select one series: CHM 3343 (3) Organic Chemistry II Select one series: CHM L343 (1) Organic Chemistry II Lab PHY 2252 (3) General Physics I MTH 2210 (3) Applied Statistics PHY L252 (1) General Physics I Lab Select 32 semester hours from the courses listed below: BIO 3347 (3) Human Anatomy and Physiology I PHY 2262 (3) Physics with Calculus I Lab BIO 3348 (3) Human Anatomy and Physiology II PHY 2263 (3) Physics with Calculus I Lab BIO 3348 (3) Human Anatomy and Physiology II PHY 2263 (3) Physics with Calculus II Lab Lab
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Select one series: CHM 3343 (3) Organic Chemistry II Lab CHM L343 (1) Organic Chemistry II Lab PHY 2252 (3) General Physics I MTH 2210 (3) Applied Statistics PHY L252 (1) General Physics I Lab MTH 2210 (3) Applied Statistics PHY L253 (3) General Physics II Select 32 semester hours from the courses listed below: BIO 3347 (3) Human Anatomy and Physiology I BIO L347 (1) Human Anatomy and Physiology I BIO L348 (3) Human Anatomy and Physiology II BIO L348 (3) Human Anatomy and Physiology II BIO L348 (3) Immunology Chemistry Core (34 Hours)
BIO L229
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry I Lab CHM 3343 (3) Organic Chemistry II Lab CHM L343 (1) Organic Chemistry II Lab CHM L343 (1) Organic Chemistry II Lab MTH 2210 (3) Applied Statistics PHY L252 (3) General Physics I Lab PHY 2253 (3) General Physics II Select 32 semester hours from the courses listed below: BIO 3347 (3) Human Anatomy and Physiology I BIO L347 (1) Human Anatomy and Physiology I BIO 3348 (3) Human Anatomy and Physiology II BIO 3348 (3) Human Anatomy and Physiology II BIO L348 (1) Human Anatomy and Physiology II BIO 3382 (3) Immunology BIO L382 (1) Immunology Lab BIO 3386 (3) Hematology CHM 1143 (3) General Chemistry II Lab General Chemistry II Lab CHM 1143 (3) General Chemistry II Lab CHM 1143 (3) General Chemistry II Lab General Chemistry II Lab CHM 1143 (1) General Chemistry II Lab
BIO L229 (1) General Ecology Lab MTH 1125 (4) Calculus I BIO 3320 (3) Genetics BIO L320 (1) Genetics Lab Area V Requirements BIO 3372 (3) Microbiology IS 2241 (3) Computer Concepts and Applications CHM 3342 (3) Organic Chemistry I TROY 1101 (1) University Orientation CHM L342 (1) Organic Chemistry II Select one series: CHM 3343 (3) Organic Chemistry II Select one series: CHM L343 (1) Organic Chemistry II Lab PHY 2252 (3) General Physics I Lab MTH 2210 (3) Applied Statistics PHY L252 (1) General Physics II Select 32 semester hours from the courses listed below: 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 PHY 2262 (3) Physics with Calculus I Lab BIO 3348 (3) Human Anatomy and Physiology II PHY 2263 (3) Physics with Calculus II Lab BIO 3382 (3) Immunology BIO L382 (1) Immunology Lab BIO 3386 (3) Hematology CHM L143 (1) General Chemistry II Lab BIO 3386 (3) Hematology CHM L143 (1) General Chemistry II Lab CHM 2242 (3) Analytical Chemistry
BIO L229
BIO L229
BIO L229

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

	CHEMIST	RY 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, sS acourses, sS ical Chemistry I Lab

Select 8 hours of upper level physics 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
	()	J
Required Cour	ses	
BIO 3320	(3)	Genetics
BIO L320	(1)	Genetics Lab
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
MTH 2210	(3)	Applied Statistics
PHY 4410	(3)	Modern Physics
PHY L410	(1)	Modern Physics Lab
SCI 3335	(3)	Physical Geology
SCI L335	(1)	Physical Geology Lab
SCI 3336	(3)	Principles of Astronomy
	Ü	g concentrations:
Biology Co		
BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3347	(3)	Anatomy & Physiology I
BIO L347	(1)	Anatomy & Physiology I Lab
BIO 3348	(3)	Anatomy & Physiology II
BIO L348	(1)	Anatomy & Physiology II Lab
BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
Select 1 botany	course wit	th corresponding lab (four hours).
Select 1 zoology	v course w	ith corresponding lab(four hours).
Chemistry	/ Concentr	
CHM 2242	(3)	Analytical Chemistry
CHM L242	(1)	Analytical Chemistry Lab
CHM 3343	(3)	Organic Chemistry II
CHM L343	(1)	Organic Chemistry II Lab
CHM 3352	(3)	Biochemistry
CHM L352	(1)	Biochemistry Lab
CHM 3381	(3)	Physical Chemistry I
CHM L381	(1)	Physical Chemistry I Lab
Calaat a minim	um of 0	competen hours of coursework from th
following:	uiii Oi o S	semester hours of coursework from the
CHM 3382	(3)	Physical Chemistry II
CHM L382	(1)	Physical Chemistry II Lab
CHM 4403	(3)	Advanced Organic Chemistry
CHM 4444	(3)	Advanced Inorganic Chemistry
CHM L444	(1)	Advanced Inorganic Chemistry Lab
CHM 4445	(3)	Instrumental Analysis
CHM L445	(1)	Instrumental Analysis Lab
CIIVI ETTO	(1)	instrumentar i maryoto zuto
Physics Co		on
PHY 4411	(3)	Advanced Modern Physics
PHY 4459	(3)	Optics
PHY L459	(1)	Optics lab
PHY 4420	(3)	Mechanics
PHY 4430	(3)	Electromagnetic Fields
PHY 4495	(3)	Topics in Physics
		-

Select two of th	e 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

Area III

MTH 2201 (3) **Business Calculus**

Select additional Area III requirements as shown in the General Studies section of this catalog.

Area V Requirements

IS 2241	(3)	Computer Concepts and Applications
MTH 2215	(3)	Applied Discrete Mathematics
TROY 1101	(1)	University Orientation

Major Requirements

(3)	Computer Science I
(3)	Computer Science II
(3)	Advanced Programming I
(3)	Data Structures and Algorithms
(3)	Introduction to Database Systems
(3)	Web-Based Software Development
(3)	Data Communications and
	Networking
(3)	Systems Analysis and Design
(3)	Operating Systems
	(3) (3) (3) (3) (3) (3)

Select three of the following:

Derect time of the	10 10110 // 1119/	
CS 3320	(3)	Business Systems Programming
CS 3332	(3)	Software Engineering I
CS 3347	(3)	Advanced Programming II
CS 4449	(3)	Applied Networking
CS 4451	(3)	Computer Security
CS 4495	(3)	Special Topics in Computer Science

COMPUTER SCIENCE A.S. DEGREE (60 HOURS)

Associate of Science Degree

See the academic regulations section of this catalog for additional information regarding associate degrees.

General Studies Requirements

Area I

 $c\ T\ 1\ i\ D \quad nENTG i1\ 1(01\ \ 9d4.9(i)) \ 4.9(i) \$

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.

(3)	Introduction to Criminal Justice
(3)	Survey of Law Enforcement
(3)	Survey of Corrections
(3)	Survey of Law and Criminal Procedure
(3)	Criminology
(3)	Constitutional Law
(3)	Introduction to Social Scientific Inquiry
(3)	Senior Seminar
	(3) (3) (3) (3) (3) (3)

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:

		-FF
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

Select 15 additional hours of upper-level criminal justice courses as approved by the adviser.

EARTH	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 Requir	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

Select an additional 33 hours of upper division courses, at least nine of which are at the 4000 level or above.

· Professional Writing Emphasis

Students at the Montgomery campus may select the Professional Writing Emphasis. In addition to ENG 3341, the following courses are required:

ENG 2260	(3)	Introduction to Technical and Pro- fessional Writing
ENG 3345	(3)	Technical and Professional Editing
ENG 3365	(3)	Advanced Technical and
	. ,	Professional Writing
ENG 3366	(3)	Professional Document Design
ENG 4488	(3)	Seminar in Professional Writing
		Portfolio Design
ENG 4490	(3)	Professional Writing Internship
		0 1

Select an additional four courses:

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

ENGLISH MINOR (18 HOURS)

		,
ENG 3341	(3)	Advanced Grammar

Select one sequence:

ENG 3351

(3) (3)	American Literature before 187 American Literature after 1875
(3)	British Literature before 1785
(3)	British Literature after 1785
	(3)

Select an additional nine hours of upper division English courses.

ENGLISH MINOR, CREATIVE WRITING (18 HOURS)

Introduction to Creative Writing

Select an additional 15 hours from the following:			
ENG 3352	(3)	Advanced Creative Writing I	
ENG 3353	(3)	Advanced Creative Writing II	
ENG 3354	(3)	Advanced Nonfiction Writing	
ENG 3355	(3)	Verse Writing	
ENG 3356	(3)	Forms and Theory of Fiction	
ENG 4420	(3)	Selected Topics in Creative Writing	
ENG 4427	(3)	Contemporary American Literature	
ENG 4489	(3)	Internship	

ENGLISH MINOR, PROFESSIONAL WRITING EMPHASIS (18 HOURS)

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

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
		•

Program 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

Environmental Science Core (32 semester hours):

BIO 2202	(3)	Principles of Environmental Science
BIO L202	(1)	Principles of Environmental Science Lab
BIO 3328	(3)	Environmental Pollution and Control
BIO L328	(1)	Environmental Pollution and Control Lab
BIO 4413	(3)	Limnology
BIO L413	(1)	Limnology Lab
BIO 4451	(3)	Toxicology
BIO L451	(1)	Toxicology Lab

ENG 1102

(3) Composition and Modern English II

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:

American/Latin American History 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.

European/Asian/African History Emphasis

Select 15 hours of upper-level European/Asian/African courses in addition to HIS 4451.

Select an additional 9 hours of upper-level American/Latin American courses in addition to either HIS 3316 or 4406.

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

Select an upper-level course in chemistry or physics (3-4 SH).

	PHYSI	CS MINOR (19 HOURS)
PHY 4410	(3)	Modern Physics
PHY L410	(1)	Modern Physics Lab
PHY 4420	(3)	Mechanics
Select one serie	es:	
PHY 2252	(3)	Gen. Physics I
PHY L252	(1)	Gen. Physics Lab I
PHY 2253	(3)	Gen. Physics II
PHY L253	(1)	Gen. Physics Lab II
or		
PHY 2262	(3)	Physics I Calculus
PHY L262	(1)	Physics I with Calculus Lab
PHY 2263	(3)	Physics II with Calculus
PHY L263	(1)	Physics II with Calculus Lab

Select an additional four hours of adviser-approved, upper-level physics courses.

POL	ITICAL S	SCIENCE MAJOR (36 HOURS)
Area V Require	ements	
IS 2241	(3)	Computer Concepts and Applications
TROY 1101	(1)	University Orientation
POL 2241	(3)	American National Government or placement in POL 2240
POL 2260	(3)	World Politics
Major Require	ments	
POL 3300	(3)	Foundations of Political Science
POL 3330	(3)	Political Theory

Select one of the following concentrations:

· American Politics Concentration

Select 15 hours from the following:

		o
POL 3340	(3)	U.S. Government – Executive Branch
POL 3341	(3)	U.S. Government – Legislative Branch
POL 3342	(3)	U.S. Government – Judicial Branch
POL 3343	(3)	American Political Processes
POL 3364	(3)	State and Local Politics
POL 4422	(3)	Public Policy Making
POL 4423	(3)	American Foreign Policy to 1920
POL 4424	(3)	Contemporary American Foreign Policy
POL 4420	(3)	Constitutional Law
POL 4471	(3)	Intergovernmental Relations

Select an additional 15 hours of upper-level (3000-4000) political science courses, as approved by your academic adviser.

· International Politics Concentration

POL 3351	(3)	International Relations
POL 4410	(3)	International Political Economy
POL 4433	(3)	Comparative Government

Select six hours from the following:

Delete buil mound in		· · · · · · · · · · · · · · · · · · ·
POL 4415	(3)	International Conflict
POL 4423	(3)	American Foreign Policy to 1920
POL 4424	(3)	Contemporary American Foreign Policy
POL 4432	(3)	Comparative Public Policy
POL 4445	(3)	Inter-American Relations
POL 4450	(3)	Latin American Politics
POL 4452	(3)	International Law
POL 4460	(3)	Intercultural Relations
POL 4465	(3)	Politics of the Developing World
POL 4466	(3)	Middle Eastern Politics
POL 4470	(3)	European Politics
POL 4474	(3)	Terrorism and Political Violence
POL 4476	(3)	Politics of Southeast Asia

Select an additional 15 hours of upper-level (3000-4000) political science courses, as approved by your academic adviser.

· Public Administration Concentration

Select 15 hours from the following:

POL 3364	(3)	State and Local Politics
POL 4421	(3)	Introduction to Public
		Administration
POL 4422	(3)	Public Policy Making
POL 4451	(3)	Public Personnel Administration
POL 4432	(3)	Comparative Public Policy
POL 4453	(3)	Bureaucratic Politics
POL 4471	(3)	Intergovernmental Relations
POL 4472	(3)	Administrative Law

Select an additional 15 hours of upper-level political science courses, as approved by your academic adviser.

POLITICAL SCIENCE MINOR (18 HOURS)		
POL 3300	(3)	Foundations of Political Science
POL 3330	(3)	Introduction to Political Theory

Select an additional 12 hours of upper level courses, as approved by your academic adviser.

SOCIAL SCIENCE EDUCATION

Students seeking Alabama teacher certification should complete the social science major with a general social science concentration and select education as a second major. Students should consult their education advisers concerning all certification requirements and with their academic discipline adviser for requirements in the major.

SOCIAL SCIENCE MAJOR (36 HOURS)

Specialized General Studies Requirements

AREA IV (12 SH)

NOTE: Social Science majors with concentrations in anthropology, geography, or sociology should take Area IV electives appropriate for their concentration.

Requirements for the Major

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

Select one concentration:

· Concentration 1: Anthropology

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.

· Concentration 2: General Social Science

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.

· Concentration 3: Geography

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:

· Concentration 4: Leadership

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

· Concentration 5: Sociology

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

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 Requir	ements	
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)

Inquiry

$66 \cdot \text{COLLEGE}$ OF ARTS AND SCIENCES

PHY L252 Or	(1)	General Physics I Laboratory
PHY 2262	(3)	Physics I with Calculus
PHY L262	(1)	Physics I with Calculus Laboratory
A = == 1) / D ====:		
Area IV Requi	rements	
ECO 2251	(3)	Principles of Macroeconomics
ECO 2252	(3)	Principles of Microeconomics
HIS 1111	(3)	U.S. History to 1877
HIS 1112	(3)	U.S. History since 1877
Area V Requir	ements	
CS 2250	(3)	Computer Science I
IS 2241	(3)	Computer Concepts and Applications
MTH 1126	(4)	Calculus II
MTH 2210	(3)	Applied Statistics
TROY 1101	(1)	University Orientation

Select a physics course/lab combination: