AFT L 254 (3)

CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
MTH 1125	(4)	Calculus I
BIO 1101 BIO L101 CHM 1143 CHM L143 IS 2241	(3) (1) (2) (1)	Organismal Biology Organismal Biology Lab General Chemistry II General Chemistry II Lab

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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
Requiremen Lectures and BIO 2200 BIO L 200 BIO L 229 BIO L 229 BIO 3320 BIO L 320 CHM 3342 CHM L 342		he major orresponding labs must be taken together. Principles of Cell Biology Principles of Cell Biology Lab General Ecology General Ecology Lab Genetics Genetics Genetics Lab Organic Chemistry I

Select four additional hours of advanced chemistry courses, such

CHM 2242 (3) A nalytical Chemistry CHM L242 (1) A nalytical Chemistry Lab

CHM 3352 (3) Biochemistry CHM L 352 (1) Biochemistry 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.

COMPREHENSIVE GENERAL SCIENCE PROGRAM

CJ 4475	(3)	Seminar in Cyber Security
CS 3310	(3)	Foundations of Computer Science

Select 15 hours from the following. See Course Descriptions for pre-requisites and restrictions:

pre-requisites and restrictions:			
CJ 1101	(3)	Introduction to Criminal Justice	
CJ 4473	(3)	Computer Forensics	
CJ 4472	(3)	Cyber Crime	
CS 3375	(3)	Foundations of Networking	
		OR	
CS 4445	(3)	Data Communication and Networking	
CS 4449	(3)	A pplied Networking	
CS 3380	(3)	C'yber Security	
		OR	
CS 4451	(3)	Computer Security	
	` '	1	

Students may not receive academic credit for both CS 3375 and CS 4445, or CS 3380 and CS 4451.

A certificate in Cyber Security with the same requirements as the Cyber Security Minor is available. Computer Science majors should contact the Department of Computer Science for information about the certificate program. All other students interested

GEOGRAPHIC INFORMATION SYSTEMS (GIS) MINOR (18HOURS)

		,	
GEM 3390	(3)	Introduction to GIS	
GEM L 390	(1)	Introduction to GIS Lab	
GEM 3391	(3)	A pplications of GTS	
GEM L 391	(1)	A pplications of GIS Lab	
GEM 4499	(2)	Geomatics/GIS Projects	

With adviser approval, select a minimum of eight credit hours from one of the four bundles:

	GEOG	RAPHY MINOR (18HOURS)
CS 2255 CS 3323 CS 4420	(3) (3) (3)	Computer Science II Data Structures Introduction to Database Systems
CS 2255 CS 3330 CS 3360	(3) (3) (3)	Computer Science II Data Structures and Algorithms Concepts of Object Oriented Programming I
GEM 1100 GEM L110 GEM 3366 GEM L366 GEM L367	(1) (2) (3) (1) (1)	Computer-Aided Drafting Computer-Aided Drafting Lab Photogrammetry and Remote Sensing Photogrammetry and Remote Sensing Lab igital Images in GIS Lab
GEM 2200 GEM L220 GEM 3330 GEM L330 GEM L371	(3) (1) (3) (1) (1)	Basics of Cartography & Surveying Basics of Cartography & Surveying Lab A dvanced Measurement A nalysis A dvanced Measurement A nalysis Lab Measurement for GIS Lab

Select an additional 12 hours of approved, upper-level geography courses GEO 2210 may not be counted toward both general studies and the geography minor.

Principles of Physical Geography

Principles of Cultural Geography

HISTORY EDUCATION (36 HOURS)

Students seeking A labama teacher certification should select history as a first major and education as a second major. Students should consult with their advisers concerning all certification requirements.

Specialized General Studies Requirements

GEO 3300

GEO 3301

(3)

(3)

POL 2241 SOC 2275 Select one six	(3) (3) <i>-hour s</i> e	A merican National Government Introduction to Sociology equence:
HIS 1101	(3)	Western Civilization I, or placement
HIS 1102	(3)	Western Civilization II, or placement
HIS 1122 HIS 1123	(3) (3)	World History to 1500 World History from 1500
GEO 2210 HIS 1111 HIS 1112 IS 2241	(3) (3) (3) (3)	World Regional Geography U.S. to 1877, or placement U.S. since 1877, or placement Computer Concepts and A pps.

TROY 1101 (1) University Orientation

Requirements for the Major

HIS 3375 (3) Research and Methodology

HIS 4490 (3) Senior Seminar

Select one emphasis:

A merican/L atin A merican History Emphasis:

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

Select an additional nine hours of upper

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Requirements for the Major

(3) (3) HIS 3375 Research and Methodology

Senior Seminar HIS 4490

Select 18 hours of approved, upper-level European/Asian/African

Select 12 hours of approved, upper-level American Λ at in American courses.

Public History Emphasis

Specialized General studies Requirements ArealV Select a six hour sequence i

Elective Courses (9 hours)

Select any two	(2) courses	from the	e following.

	- (-/ -	
CJ 2241	(3)	Survey of Law and Criminal Procedure
CJ 4447	(3)	Current Issues in Legal Systems
		Operation and Administration
LAW 2221	(3)	Legal Environment of Business
POL 3342	(3)	Judicial Branch
POL 4472	(3)	A dministrative Law
		OR
LAW 4420	(3)	A dministrative Law

Select one (1) course from the following:

3010010110 (1,	Course	in om the ronoving.
CJ 2241	(3)	Survey of Law and Criminal Procedure
CJ 3352	(3)	Constitutional Lawin Criminal Justice
		OR
POL 4420	(3)	Constitutional Law
CJ 4442	(3)	Criminal Investigation and Evidence
CJ 4447	(3)	Current Issues in Legal Systems
		Operation and Administration
LAW 2221	(3)	Legal Environment of Business
POL 3342	(3)	Judicial Branch
POL 4472	(3)	A dministrative Law
		OR
LAW 4420	(3)	A dministrative Law

LIBERAL STUDIES PROGRAM (60HOURS)

POL 2241	(3)	A merican National Governmen
POL 2260	(3)	World Politics
SOC 2275	(3)	Introduction to Sociology

ANT 2200

PHYSICS MAJOR (36HOURS)

TROY 1101 IS 2241	(1) (3)	University Orientation Computer Concepts & Applications OR
CS 2250	(3)	Computer Science I
MTH 1126	(4)	Calculus II
PHY 2262	(3)	Physics I w/Calculus
PHY L 262	(1)	Physics I w/Calculus Lab

Select 11 hours of additional electives to complete Area V.

PHY 2263 PHY L263 PHY 3310 PHY L310 PHY 3320 PHY 3321 PHY 3325 PHY 4420 PHY 4435	(3) (1) (3) (1) (3) (3) (3) (3)	Physics II w/Calculus Physics II w/Calculus Lab Modern Physics Modern Physics Lab Mathematical Methods for Physicists Equations of Mathematical Physics Thermodynamics Mechanics Electricity & Ma
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tion 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 HMM

GEM 3330 GEM L330 GEM 3366 GEM L366 GEM 3370 GEM L370 GEM L379	(3) (1) (3) (1) (3) (1) (3) (1)	A dvanced Measurement A nalysis A dvanced Measurement A nalysis Lab Photogrammetry and Remote Sensing Photogrammetry and Remote Sensing Lab Geodesy & Geodetics Geodesy & Geodetics Lab Introduction to Least Squares A djustment Introduction to Least Squares A djustment I ab
GEM 3390 GEM L 390 GEM 3391 GEM L 405 GEM L 405 GEM L 407 GEM L 409 GEM L 409 GEM L 410 GEM L 410 GEM L 410	(3) (1) (3) (1) (3) (1) (3) (1) (3) (1) (3)	Introduction to GIS Introduction to GIS Lab A pplications of GIS Lab A pplications of GIS Lab Route & Construction Surveying Route & Construction Surveying Lab Land Development Land Development Lab Hydrology Hydrology Lab Introduction to Global Positions Introduction to Global Positions Lab Geomatics Capstone

Select two hours below: