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AFTL254 (3)

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

IS 2241

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

- PHY 2263 Physics II with Calculus (3)
- PHY L 263 (1) Physics II with Calculus Lab

Requirements for the major Lectures and their corresponding labs must be taken together. BIO 2200 (3) Principles of Cell Biology BIO L200 (1) Principles of Cell Biology Lab

- General Ecology General Ecology Lab BIO 2229 (3)
- BIO L 229 (1)
- (3) BIO 3320 Genetics
- (1) (3) Genetics Lab Organic Chemistry I BIO L 320
- CHM 3342
- CHM L 342

Select four additional hours of advanced chemistry courses, such as

- CHM 2242 (3) A nalytical Chemistry
- CHM L 242 (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:

CJ 1101 (3) (3) (3) (3) Introduction to Criminal Justice CJ 4473 Computer Forensics CJ 4472 Cyber Crime CS 3375 Foundations of Networking OR (3) (3) (3) CS 4445 Data Communication and Networking CS 4449 CS 3380 Applied Networking Cyber Security ОŔ CS 4451 (3) Computer Security

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

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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 GIS
GEM L 391	(1)	Applications 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:

G	F

GEM 2200	(3)	Decise of Cartegraphy & Supporting
GEIVI ZZOU	(3)	Basics of Cartography & Surveying
GEM L 220	(1)	Basics of Cartography & Surveying Lab
GEM 3330	(3)	A dvanced Measurement A nalysis
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- GEML330 (1) A dvanced Measurement A nalysis Lab
- GEM L 371 (1) Measurement for GIS Lab

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GEM 1100	(1)	Computer-Aided Drafting
GEM L110	(2)	Computer-Aided Drafting Lab
GEM 3366	(3)	Photogrammetry and Remote Sensing
GEM L366	(1)	Photogrammetry and Remote Sensing Lab
GEM L367	(1)	Ørgital Images in GIS Lab
<i>•</i> CS 2255 CS 3330 CS 3360	(3) (3) (3)	Computer Science II Data Structures and Algori thms Concepts of Object Oriented

5 5500	(\mathbf{J})	
		Programming I

CS 2255	(3)	Computer Science II
CS 3323	(3)	Data Structures
CS 4420	(3)	Introduction to Database Systems

GEOGRAPHY MINOR (18HOURS)

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

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.

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

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

Computer Concepts and Apps. IS 2241 (3)

TROY 1101	(1)	University Orientation
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Requirements for the Major

HIS 3375	(3)	Research and Methodology
1110 4400	())	Caral and Caral lands

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. f

Select an additional nine houts 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 COULSES.

Select 12 hours of approved, upper-level American/Latin American courses.

Public History Emphasis Specialized General studies Requirements ArealV Select a six hour sequence i

Elective Courses (9 hours) <i>Select any two (2) courses from the following:</i>				
CJ 2241 CJ 4447	(3) (3)	Survey of Law and Criminal Procedure 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 O R		
LAW 4420	(3)	A dministrative Law		
		from the following:		
CJ 2241	(3)	Survey of Law and Criminal Procedure		
CJ 3352	(3)	Constitutional Law in 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 POL 2260 SOC 2275 A merican National Government
- World Politics
- (3) (3) (3) Introduction to Sociology

ANT 2200

PHYSICS MAJOR (36HOURS)

TROY 1101	(1)	University Orientation
IS 2241	(3)	Computer Concepts & Applications
		OR
CS 2250	(3)	Computer Science I
MTH 1126	(4)	Calculus II
PHY 2262	(3)	Physics I w/Calculus
PHY L262	(1)	Physics I w/Calculus Lab

Select 11 hours of additional electives to complete Area V.

PHY 2263 PHY L263 PHY 3310 PHY 1310 PHY 3320 PHY 3321 PHY 3325 PHY 4420 PHY 4435	 (3) (1) (3) (3) (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 (36HMM

GEM 3330 GEM L 330 GEM L 366 GEM L 366 GEM 3370 GEM L 370 GEM 3379 GEM L 379	(3) (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 Lab
GEM 3390 GEM 1390 GEM 1391 GEM 1391 GEM 4405 GEM 1405 GEM 1407 GEM 1407 GEM 1409 GEM 1409 GEM 1409 GEM 1410 GEM 1410 GEM 4490	 (3) (1) (3) (1) (3) (1) (3) (1) (3) (1) (3) (1) (1) 	Introduction to GIS Introduction to GIS Lab A pplications of GIS 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.