

**GEOGRAPHY-ANTHROPOLOGY MAJOR – APPLIED GIS & GEOSPATIAL SPECIALIZATION
FALL 2015 AND BEYOND - NEW CORE**

CORE REQUIREMENTS Catalog Year:	Course	Date	Cr.	Grade
Writing Proficiency				
Mathematics Proficiency				
Entry Year Experience (3 credits – during first semester at USM) only for students entering USM with less than 24 transfer credits				
College Writing (3-4 credits)				
Quantitative Reasoning (3-4 credits) – majors must take MAT 120 Introduction to Statistics				
Creative Expression (3 credits)				
Cultural Interpretation (3 credits)				
Science Exploration with Lab (4 credits)				
Socio-Cultural Analysis (3 credits)				
Ethical Inquiry, Social Responsibility & Citizenship (3 credits)				
Diversity (3 credits - may overlap with other core or major requirement, except International requirement)				
International (3 credits - may overlap with other core or major requirement, except Diversity requirement)				
Thematic Cluster (3 courses for 9 minimum credits – one course may overlap with Major) OR Minor – in lieu of Thematic Cluster (minimum 15 credits) Only 1/3 of credits in Minor may be courses to be applied to Major				
MAJOR REQUIREMENTS				
GEO/ANT 105 Society, Environment, and Change				
GEO 103 Human-Environmental Geography				
GEO 207 Map History: Making Sense of the World				
Capstone (may include internship, independent study, summer travel course, field school, or study abroad. 3 credit min)				
Demonstrated Competency in Research Writing				
APPLIED GIS & GEOSPATIAL ANALYSIS SPECIALIZATION				
<u>Methods: 15 Credits</u>	Course	Date	Cr.	Grade
GEO 305 Remote Sensing				
GEO 308 GIS Applications I				
GEO 408 GIS Applications II				
GEO 340 Digital Mapping				
<u>Topical Electives: 12 Credits</u> (list on reverse)				

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FALL 2015 AND BEYOND**

The minimum number of credits (exclusive of the University's Core Curriculum) required for the major: 39

All students must take:

GEO/ANT 105	Society, Environment, and Change
GEO 103	Human-Environmental Geography
GEO 207	Map History: Making Sense of the World
MAT 120	Introduction to Statistics - as part of the University Core Requirements

Students who elect to specialize in Applied GIS & Geospatial Analysis must also take:

Methods (15 credits):

GEO 305	Remote Sensing
GEO 308	GIS Applications I
GEO 408	GIS Applications II
GEO 340	Digital Mapping

Topical Electives: Select courses from the following list to total at least 12 credits. Select at least 3 credits from each of the groups and at least 6 credits at or above 300 level.

Group 1:

BUS 275	Applied Business Analysis
BUS 345	Information Technology/Management Information Systems
BUS 377	Information Visualization
COS 160 & 170	Structured Problem Solving: Java & Lab
COS 246	Programming Topics: Programming Handheld Devices
COS 246	Programming Topics: Web Mapping Systems
COS 375	Web Applications Development
COS 457	Database Systems
LOS/LAC 318	Database Management

Group 2:

GEO 203	Urban and Regional Development
GEO 209	Introduction to Land Use Planning
(or) GEO 210	Planning Maine Communities: Current Issues and Directions
GEO 285	Global Environmental Problems and Sustainability
GEO 481	Megacities and Global Planning Issues
ANT/TAH 241	Tourism and Community Development
ANT 306	Analysis of Archaeological Materials
ANT 308	Environmental Archaeology
ANT 315	Ethnography: Methods, Ethics and Practice
(or) ANT 360	Public Archaeology

Capstone (3 credits minimum, any of the following will count toward the capstone requirement):

GEO 360	Field Mapping in the Island Environment: Data Collection to GIS
GEO 438	Independent Study in GIS
GEO 448	Internship in GIS
GYA 300	Archaeology Field School
GYA 400	Independent Study in Anthropology or Geography

Additionally, all Geography-Anthropology majors are required to demonstrate writing competence by completing either two research papers or one research paper and one research product (e.g., poster, media project) in the major with grades of C or better, from two different professors, circulated and reviewed by the Department at least one semester prior to graduation.

The maximum number of hours of internships, field experience, and/or independent studies that can be applied toward the major is 9 hours. All students must meet with their advisors before registering for courses each semester.