

# GEOGRAPHIC, ENVIRONMENTAL, AND URBAN STUDIES (B.A.)

Unless otherwise noted, 120 credits of coursework is required for a baccalaureate degree with a minimum 2.0 overall GPA, and a minimum 2.0 major GPA.

## Degree Requirements Overview

Code	Title	Credits
	New Student Seminar	1
	SEEDS General Education Requirements	30-33
	Major Requirements	50-54
	Free Electives	39-32
<b>Total Credits</b>		<b>120</b>

## Major Requirements

Code	Title	Credits
<b>Required Core Courses</b>		
EAES 100 or EAES 101	Principles of Geography Planet Earth	3-4
EAES 161 or EAES 170	Human Geography World Geography	3
EAES 210	Introduction to GIS and Remote Sensing	3
EAES 281	Introduction to American Urban Studies	3
EAES 390	Research Methods	3
EAES 497 or EAES 487	Senior Seminar Geography Senior Seminar in Urban Study (Urban Studies Internship)	3

### Tracks and Additional Electives

Complete one track. Click on the Tracks tab to see a list of all tracks. 21

### Additional/Collateral Coursework

Complete one of the following:		3-4
AMAT 120	Applied Calculus A	
MATH 111	Applied Precalculus	
MATH 122	Calculus I	
STAT 109	Statistics	
	or STAT 230 Data Science and Statistics	
STAT 230	Data Science and Statistics	

### Collateral Sequence

Complete one collateral sequence in Anthropology, Archeology, Biology, Chemistry, Economics, Geology, History, Justice Studies, Math/Computer Science, Sociology or Writing Studies. Click on the Collateral Sequence tab to see a list of all collateral sequences. 8-10

**Total Credits** 50-54

## Tracks (complete one)

### Regional and Urban Systems Track

Code	Title	Credits
Complete 15 credits from the following. A minimum of 9 credits should be at the 300-400 level.		

ANTH 255	Urban Anthropology	3
EAES 271	Geography of East and Southeast Asia	3
EAES 272	Land and Life in Latin America	3
EAES 283	Urban Georgraphy	3
EAES 300	Energy Transitions: A Global Dependence	3
EAES 303	Environmental Field Methods	3
EAES 310	Geographic Information Systems (GIS)	3
EAES 363	Geopolitics	3
EAES 370	World Resources and Industries	3
EAES 373	Historical Geography of the United States	3
EAES 380	Transportation	3
EAES 381	Urban Field Studies	3
EAES 384	Managing the Urban Environment	3
EAES 385	Urbanization and Environment	3
EAES 391	Quantitative Methods in Geography and Urban Studies	3
EAES 410	Special Topics in Advanced GIScience	3
EAES 460	Environmental Law	3
EAES 475	Environmental Economics	3
EAES 484	Urban Planning	3
EAES 490	Independent Study in Geography	1-4
EAES 492	Honors Research	3

### Additional Electives

Complete 6 credits from the following. A minimum of 3 credits should be at the 300-400 level.

ANTH 422	Environment and Community	3-4
ANTH 429	Building Sustainable Communities	3-4
EAES 104	Natural Disasters	3
EAES 200	Geomorphology	3
EAES 201	Understanding Weather and Climate	4
EAES 230	Hydrology	3
EAES 240	Earth System History	4
EAES 250	Introduction to Marine Sciences	4
EAES 260	Energy, Environment and Society	3
EAES 321	Economic Geology	3
EAES 491	Internship	3-12
NUFD 153	Dynamics of Food and Society	3
NUFD 286	Gender in Food and Nutrition Issues	3
POLS 324	Applied Policy Analysis	3
PHYS 109	Energy and Climate Change	3
SOCI 240	Statistics for Social Research	4
SOCI 311	Urban Sociology	3
SOCI 314	Environmental Justice	3
SOCI 315	Social Inequality	3
SOCI 318	Sociology of Population	3

## Economics, Environment, and Society Track

Complete 15 credits from the following. A minimum of 9 credits should be at the 300-400 level.

Code	Title	Credits
ANTH 404	Planetary Health	3
ANTH 422	Environment and Community	3-4
EAES 161	Human Geography	3

EAES 170	World Geography	3
EAES 202	Introduction to Sustainability Science	3
EAES 260	Energy, Environment and Society	3
EAES 300	Energy Transitions: A Global Dependence	3
EAES 303	Environmental Field Methods	3
EAES 310	Geographic Information Systems (GIS)	3
EAES 311	Fundamentals of Remote Sensing of Environment	3
EAES 370	World Resources and Industries	3
EAES 380	Transportation	3
EAES 381	Urban Field Studies	3
EAES 384	Managing the Urban Environment	3
EAES 385	Urbanization and Environment	3
EAES 391	Quantitative Methods in Geography and Urban Studies	3
EAES 410	Special Topics in Advanced GIScience	3
EAES 460	Environmental Law	3
EAES 475	Environmental Economics	3
EAES 490	Independent Study in Geography	1-4
ECON 414	Economics of Natural Resources and Global Warming	3
ECON 419	Economics Of Energy And Environmental Policy	3
NUFD 153	Dynamics of Food and Society	3

*Additional Electives*

Complete 6 credits from the following. A minimum of 3 credits should be at the 300-400 level.

ANTH 429	Building Sustainable Communities	3-4
BSLW 235	Legal, Ethical, and Global Environment of Business	3
EAES 230	Hydrology	3
EAES 250	Introduction to Marine Sciences	4
EAES 260	Energy, Environment and Society	3
EAES 271	Geography of East and Southeast Asia	3
EAES 283	Urban Georgraphy	3
EAES 300	Energy Transitions: A Global Dependence	3
EAES 303	Environmental Field Methods	3
EAES 311	Fundamentals of Remote Sensing of Environment	3
EAES 373	Historical Geography of the United States	3
EAES 484	Urban Planning	3
EAES 491	Internship	3-12
ECON 310	Urban and Regional Economics	3
HSET 201	Leisure and Tourism	3
HSET 301	Leisure and Tourism Operations	3
INBS 250	Introduction to International Business	3
INFO 173	Spreadsheet Modeling for Business Decisions	3
JUST 314	Environmental Justice	3
JUST 330	International Environmental Issues	3
NUFD 286	Gender in Food and Nutrition Issues	3

**Geographic Science and Environmental Systems Track**

**Code**                      **Title**    **Credits**

Complete 15 credits from the following. A minimum of 9 credits should be at the 300-400 level.

BIOL 213	Introduction to Ecology	4
EAES 104	Natural Disasters	3

EAES 150	General Oceanography	3
EAES 200	Geomorphology	3
EAES 201	Understanding Weather and Climate	4
EAES 230	Hydrology	3
EAES 250	Introduction to Marine Sciences	4
EAES 260	Energy, Environment and Society	3
EAES 300	Energy Transitions: A Global Dependence	3
EAES 303	Environmental Field Methods	3
EAES 310	Geographic Information Systems (GIS)	3
EAES 311	Fundamentals of Remote Sensing of Environment	3
EAES 322	Environmental Geochemistry	3
EAES 330	Fluvial Geography	3
EAES 331	Geohydrology	3
EAES 332	Hydroclimatology	3
EAES 341	Principles of Soil Science	3
EAES 343	Geoarchaeology	3
EAES 381	Urban Field Studies	3
EAES 384	Managing the Urban Environment	3
EAES 385	Urbanization and Environment	3
EAES 391	Quantitative Methods in Geography and Urban Studies	3
EAES 410	Special Topics in Advanced GIScience	3
EAES 451	Coastal Marine Geology	4
EAES 490	Independent Study in Geography	1-4

*Additional Electives*

Complete 6 credits from the following. A minimum of 3 credits should be at the 300-400 level.

ANTH 423	Community and Health	3-4
ANTH 429	Building Sustainable Communities	3-4
BIMS 490	Field Methods in the Marine Sciences	4
EAES 250	Introduction to Marine Sciences	4
EAES 283	Urban Georgraphy	3
EAES 300	Energy Transitions: A Global Dependence	3
EAES 321	Economic Geology	3
EAES 380	Transportation	3
EAES 410	Special Topics in Advanced GIScience	3
EAES 460	Environmental Law	3
EAES 484	Urban Planning	3
EAES 491	Internship	3-12

**Geoinformatics Track**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
EAES 310	Geographic Information Systems (GIS)	3
EAES 311	Fundamentals of Remote Sensing of Environment	3

Complete 9 credits from the following. A minimum of 3 credits should be at the 300-400 level.

CSIT 104	Python Programming I	3
CSIT 230	Computer Systems	3
CSIT 360	Advanced Techniques in Data Science	3
EAES 303	Environmental Field Methods	3
EAES 332	Hydroclimatology	3
EAES 391	Quantitative Methods in Geography and Urban Studies	3

EAES 410	Special Topics in Advanced GIScience	3
EAES 475	Environmental Economics	3
EAES 484	Urban Planning	3
EAES 490	Independent Study in Geography	1-4
INFO 173	Spreadsheet Modeling for Business Decisions	3
INFO 210	Database Systems	3
INFO 240	Statistical Methods in Business	3
INFO 265	Foundations of Business Analytics and Artificial Intelligence	3
INFO 366	Managing Big Data and Cloud Computing	3
MATH 122	Calculus I	4
STAT 230	Data Science and Statistics	3

**Additional Electives**

Complete 6 credits from the following. A minimum of 3 credits should be at the 300-400 level.

CSIT 212	Data Structures and Algorithms	3
CSIT 296	Special Topics in Programming Languages	1
CSIT 313	Fundamentals of Programming Languages	3
CSIT 440	Principles of Data Mining	3
EAES 161	Human Geography	3
EAES 170	World Geography	3
EAES 202	Introduction to Sustainability Science	3
EAES 260	Energy, Environment and Society	3
EAES 283	Urban Geography	3
EAES 370	World Resources and Industries	3
EAES 460	Environmental Law	3
EAES 475	Environmental Economics	3
EAES 484	Urban Planning	3
EAES 491	Internship	3-12
INFO 301	Business Decision Making	3
INFO 306	Introduction to Web Development	3
INFO 364	Regression Modeling in Business	3
MGMT 363	Business and Society	3
PHYS 109	Energy and Climate Change	3

**Collateral Sequence (complete one)****Anthropology**

Code	Title	Credits
ANTH 100	Cultural Anthropology	3
ANTH 201	Applied Anthropology	3
Complete one course from the following:		3
ANTH 103	Introduction to Archaeology	
ANTH 110	Anthropology of Multicultural America	
ANTH 115	Cultures of the Middle East	
ANTH 120	Native North Americans	
ANTH 130	Cultures of South Asia	
ANTH 150	Cultures of Latin America	
ANTH 255	Urban Anthropology	
ANTH 270	Archaeology of Ancient Middle America	
ANTH 301	Methods in Anthropological Research and Practice	

ANTH 404	Planetary Health	
<b>Total Credits</b>		<b>9</b>

**Archaeology**

Code	Title	Credits
ANTH 103	Introduction to Archaeology	3
HUMN 181	Introduction to Classical Archaeology	3
Complete one course from the following:		3
ANTH 270	Archaeology of Ancient Middle America	
ANTH 290	Historical Archaeology	
ANTH 320	Caribbean Archaeology	
ANTH 325	North American Archaeology	
ANTH 335	Bioarchaeology	
ANTH 410	Public Archaeology	
HUMN 361	Special Topics in Mediterranean Archaeology	
HUMN 362	Field Methods in Mediterranean Archaeology	
<b>Total Credits</b>		<b>9</b>

**Biology**

Code	Title	Credits
BIOL 112	Principles of Biology: Introduction to the Cell	4
BIOL 113	Principles of Biology: Organisms and Diversity	4
<b>Total Credits</b>		<b>8</b>

**Chemistry**

Code	Title	Credits
CHEM 120	General Chemistry I	4
CHEM 121	General Chemistry II	4
<b>Total Credits</b>		<b>8</b>

**Economics**

Code	Title	Credits
ECON 101	Applied Macroeconomics	3
ECON 102	Applied Microeconomics	3
ECON 206	Managerial Economics	3
or ECON 207	Intermediate Microeconomic Analysis	
<b>Total Credits</b>		<b>9</b>

**Geology**

Code	Title	Credits
EAES 105	Physical Geology	4
EAES 240	Earth System History	4
<b>Total Credits</b>		<b>8</b>

**History**

Code	Title	Credits
<i>Introductory History Elective</i>		
Complete one course from the following:		3
HIST 106	Contemporary Europe	
HIST 117	Foundations of America	
HIST 118	Emergence of the Modern United States	
HIST 141	Emergence of the Modern World	
<i>Intermediate History Elective</i>		

Complete one course from the following:	3
HIST 205 Race and Ethnicity in United States History	
HIST 214 United States Foreign Relations	
HIST 217 African American History	
HIST 241 History of Public Health in the United States	

*Advanced History Elective*

Complete one course from the following:	3
HIST 312 Historical Geography of the United States	
HIST 320 American Urban History Since 1880	
HIST 342 Frontiers and Borderlands of the Americas	
HIST 466 Historical Geographic Information Systems and Mapping	

**Total Credits** 9

**Justice Studies**

Code	Title	Credits
Complete three courses from the following:		9
JUST 102 Introduction to Criminal Justice		
JUST 103 Introduction to International Justice		
JUST 204 Intro to Justice, Law, and Society		
JUST 209 Environmental Crime		
JUST 314 Environmental Justice		
JUST 330 International Environmental Issues		

**Total Credits** 9

**Math/Computer Science**

Code	Title	Credits
CSIT 111 Fundamentals of Java Programming		3
CSIT 112 Fundamentals of Programming II		3
MATH 111 Applied Precalculus		4

**Total Credits** 10

**Sociology**

Code	Title	Credits
SOCI 201 Foundations of Sociological Inquiry		4
Complete 2 courses from the following:		6
SOCI 220 Sociology of Rich and Poor Nations		
SOCI 311 Urban Sociology		
SOCI 312 Environmental Sociology		
SOCI 314 Environmental Justice		
SOCI 318 Sociology of Population		

**Total Credits** 10

**Writing Studies**

Code	Title	Credits
Complete three courses from the following:		9
WRIT 105 College Writing I		
WRIT 106 College Writing II		
WRIT 204 Style and Editing		
WRIT 206 Workplace Writing		
WRIT 207 Technical Writing and Communication		

**Total Credits** 9

**New Student Seminar**

Code	Title	Credits
Students in the Adult Learner program must take GNED 100.		
Complete one course from the following. Some courses may be restricted by major. Consult with an academic advisor.		1
ADVS 198	Pathways to Success	
CHEM 190	Freshman Seminar in Chemistry	
FYS 100	First Year Seminar	
GNED 100	Adult Academic Success Seminar	
GNED 199	New Student Seminar	
HPEM 199	Freshman Seminar in Health and Physical Education	
IDS 155	Pathways to Adult Learning	
JUST 199	New Student Seminar	
MATH 102	New Student Experience for Mathematical Sciences	
MUGN 199	Freshman Seminar for Music Majors	
NURS 199	Introduction to Nursing	
POLS 199	Freshman Seminar in Political Science and Law	

**SEEDS General Education Requirements**

Click here for a listing of courses that fulfill the SEEDS requirements. (<http://catalog.montclair.edu/programs/seeds-general-education-requirements/>)

Code	Title	Credits
<b>Foundations</b>		
<i>Effective Writing I</i>		
Complete one Effective Writing I course.		3
<i>Effective Writing II</i>		
Complete one Effective Writing II course.		3
<i>Interactive Communication</i>		
Complete one Interactive Communication course.		3
<i>Quantitative Reasoning</i>		
Complete one Quantitative Reasoning course.		3
<i>Political and Civic Life</i>		
Complete one Political and Civic Life course.		3
<i>World Languages</i>		
Complete two sequential classes in one World Language when starting at the Beginner I or Beginner II level. Complete one class when starting at the Intermediate/Advanced Level.		3-6
<b>Exploration</b>		
Complete one course from four different Exploration categories.		12
<i>Analyzing Cultures and Societies</i>		
<i>Creative Expression</i>		
<i>Ethical Inquiry</i>		
<i>Historical Thinking</i>		
<i>Literary and Artistic Analysis</i>		
<i>Scientific Reasoning</i>		
<b>Total Credits</b>		<b>30-33</b>