

**Geography BA major program worksheet, effective Fall 2003**  
**Montclair State University, Dept. of Earth & Environmental Studies, College of Science and Math**

<b>Student</b> _____	<b>Advisor</b> _____
<b>Student ID</b> _____	

**I. GENERAL EDUCATION REQUIREMENTS (2002)**  
**47-51 sh excluding required Major/Collaterals courses**

- A. New Student Seminar \_\_\_\_\_ 1 sh
- B. Interdisciplinary Courses
  - B1. Contemporary Issues I \_\_\_\_\_ 3 sh
  - B2. Contemporary Issues II \_\_\_\_\_ 3 sh
  - B3. Contemporary Issues III \_\_\_\_\_ 3 sh
- C. Communication: 9 sh
  - C1. Writing/Literature \_\_\_\_\_ 3 sh
  - \_\_\_\_\_ 3 sh
  - C2. Communication \_\_\_\_\_ 3 sh
- D. Fine and Performing Arts \_\_\_\_\_ 3 sh
- E. World Languages: 3-6 sh<sup>(3)</sup> \_\_\_\_\_ 3 sh
- \_\_\_\_\_ 3<sup>(3)</sup> sh
- F. Humanities: 6 sh
  - F1. World Literature/General Humanities \_\_\_\_\_ 3 sh
  - F2. Philosophy/Religion \_\_\_\_\_ 3 sh
- G. Computer Science<sup>(3)</sup> \_\_\_\_\_ 0-3 sh
- H. Mathematics \_\_\_\_\_ MATH 109 0 sh
- I. Natural/Physical Science Laboratory <sup>(1)</sup> \_\_\_\_\_ see below 4<sup>(1)</sup> sh
- J. Physical Education \_\_\_\_\_ 1 sh
- K. Social Science: 12 sh
  - K1. American/European History \_\_\_\_\_ 3 sh
  - K2. Non-Western Cultural Perspectives<sup>(2)</sup> \_\_\_\_\_ 3 sh
  - K3. Social Science \_\_\_\_\_ EUGS 101 0 sh
- L. General Education elective (NOT in major): \_\_\_\_\_ 3 sh

Footnotes:

- (1) This GenEd requirement satisfied if GEOS 107 is selected as part of the Geography core required courses
- (2) Some elective courses in the major may satisfy this requirement
- (3) May be waived by testing out, in which case additional Free Electives are required.

**II. MAJOR REQUIREMENTS** **36 sh**

- A. Required Core Courses: 15-16 sh
- 1. EUGS 100 Principles of Geography (3 sh) \_\_\_\_\_ 3-4 sh  
*or* GEOS 107 Planet Earth (4 sh) \_\_\_\_\_
  - 2. EUGS 101 Human Geography \_\_\_\_\_ 3 sh  
*or* EUGS 102 World Geography \_\_\_\_\_
  - 3. EUGS 206 Intro to American Urban Studies \_\_\_\_\_ 3 sh
  - 4. EUGS 270 GIS I: Digital Mapping \_\_\_\_\_ 3 sh
  - 5. EUGS 309 Research Methods \_\_\_\_\_ 3 sh
- B. Senior capstone: 3 sh
- EUGS 466 Senior Seminar in Geography *or*
  - EUGS 464 Senior Seminar in Urban Studies \_\_\_\_\_ 3 sh
- C. Geography electives: 17-18 sh Must include at least 3sh each from Physical/Environmental, Urban, & Regional/ Spatial Analysis (see attached list for applicable courses).
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**III. COLLATERAL COURSES** **11-12 sh**

- A. MATH 109 Statistics \_\_\_\_\_ 3 sh
- B. Collateral electives. Choose **one** of the following sequences
- 1. PHYS 191 University Physics I \_\_\_\_\_ 4  
 PHYS 192 University Physics II \_\_\_\_\_ 4
- 2. PHYS 193 College Physics I \_\_\_\_\_ 4  
 PHYS 194 College Physics II \_\_\_\_\_ 4
- 3. MATH 112 Precalculus Mathematics \_\_\_\_\_ 3  
 CMPT 183 Found. of Computer Science I \_\_\_\_\_ 3  
 CMPT 184 Found. of Computer Science II \_\_\_\_\_ 3
- 4. CHEM 120 General Chemistry I \_\_\_\_\_ 4  
 CHEM 121 General Chemistry II \_\_\_\_\_ 4
- 5. BIOL 112 Principles of Biology I \_\_\_\_\_ 4  
 BIOL 113 Principles of Biology II \_\_\_\_\_ 4
- 6. GEOS 112 Physical Geology \_\_\_\_\_ 4  
 GEOS 114 Historical Geology \_\_\_\_\_ 4
- 7. ECON 101 Principles of Economics, Macro \_\_\_\_\_ 3  
 ECON 102 Principles of Economic, Micro \_\_\_\_\_ 3  
 MGMT 231 Management Processes \_\_\_\_\_ 3
- 8. SOCI 201 Found. of Sociological Inquiry \_\_\_\_\_ 4  
 + min 4 sh 200-400 level SOCI course(s) \_\_\_\_\_ 4
- 9. ANTH 100 Cultural Anthropology \_\_\_\_\_ 3  
 ANTH 201 Contemp. Practical Anthropology \_\_\_\_\_ 3  
 ANTH 210 Urban Anth. or ANTH Area Elective \_\_\_\_\_ 3

**IV. FREE ELECTIVES** **21-35 sh**

Use to reach total 120 sh for graduation. See footnotes to left.

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**Major electives:** select 17-18 semester hours from the following list (to complete a total of 36 sh for the major). Must include AT LEAST 3 semester hours each from Physical/Environmental, Urban, and Regional/Spatial Analysis categories, respectively.

**Physical / Environmental Geography**

GEOS 257 Understanding Weather and Climate	4
GEOS 201 Climatology	3
PHMS 210 Introduction to Marine Sciences	4
BIOL 213 Introduction to Ecology	4
GEOS/ENVR 252 Hydrology	3
GEOS 254 Geomorphology and Climatology of North America	3
EUGS/GEOS 352 Fluvial Geography	3
GEOS 403 Man's Impact on the Coastal Zone	4
GEOS 404 Geo-Ecology	3
ENVR 410 Environmental Law	3
GEOS 450 Principles of Soil Science	3
ENVR/GEOS 452 Geohydrology	3
GEOS 454 Environmental Geochemistry	3
ENVR 456 Hydroclimatology	3
GEOS 457 Meteorology	4

**Urban Systems**

EUGS 101 Human Geography (if not taken as part of the required core)	3
EUGS 204 Principles of Land Use	3
EUGS 209 Urban Design and Architecture: American Cityscape	3
EUGS 213 Urban Geography	3
EUGS 234 Transportation	3
EUGS 300 World Resources and Industry	3
EUGS 301 Urban Field Studies	3
EUGS 312 Historical Geography of the United States	3
EUGS 331 Urbanization and the Environment	3
EUGS 408 Geopolitics	3
EUGS 460 Urban Planning	3
EUGS 462 People and Cities: Comparative Urban Studies	3

**Regional and Spatial Analysis**

EUGS 102 World Geography (if not taken as part of the required core)	3
EUGS 207 Geography of East and Southeast Asia	3
EUGS 208 Land and Life in Latin America	3
GEOS 251 Aerial Photograph Interpretation	4
EUGS 306 Geography of South Asia	3
EUGS 303 Field Geography	3
EUGS 310 Quantitative Methods in Geography and Urban Studies	3
EUGS 412 Geography of Sub-Saharan Africa	3
EUGS 413 Geography of the Middle East	3
EUGS 424 Geography of New Jersey	3
ENVR/GEOS 455 Fundamentals of Remote Sensing of the Environment	3
EUGS 470 Geographic Information Systems (to be retitled Advanced GIS)	3

**Other courses listed in catalog that may be substituted for electives with approval from your advisor**

EUGS 425 – Readings in Geography	3
EUGS 426 – Independent Study in Geography	1-4
EUGS 427 – Pro-seminar in Geography	3

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**Geography Major Program**  
**Suggested Sequence**

Based on new 120 SH graduation requirement and new (2002) Gen Ed requirements.  
 Assumes exemption from basic skills requirements.

<b>Freshman: Fall</b>	<b>SH</b>	<b>Freshman: Spring</b>	<b>SH</b>
<b>EUGS 100 or GEOS 107</b> (107: Gen Ed Lab Science)	<b>3-4</b>	<b>EUGS 101 or 102</b> (Gen Ed Social Science)	<b>3</b>
Gen Ed: Computer Science	3	<b>Collateral: MATH 109</b> (Gen Ed Math)	<b>3</b>
Gen Ed: Writing	3	Gen Ed: Literature	3
Gen Ed: World Languages I	3	Gen Ed: World Languages II	3
Gen Ed: Physical Education	1	Gen Ed: Contemporary Issues I	3
Gen Ed: New Student Seminar	1		
	14-15		15
<b>Sophomore: Fall</b>		<b>Sophomore: Spring</b>	
<b>EUGS 206</b>	<b>3</b>	<b>EUGS 270</b>	<b>3</b>
<b>Collateral Elective I</b>	<b>3-4</b>	<b>Collateral Elective II</b>	<b>3-4</b>
Gen Ed: Contemporary Issues II	3	Gen Ed: Contemporary Issues III	3
Gen Ed: Communication	3	Gen Ed Humanit., Arts, Social Sci., Elective	6
Gen Ed Humanit., Arts, Social Sci., Elective	3	(include Gen Ed Lab Sci. if not done yet)	
	15-16		15-16
<b>Junior: Fall</b>		<b>Junior: Spring</b>	
<b>EUGS 309</b>	<b>3</b>	<b>Geography major electives</b>	<b>6-7</b>
<b>Geography major elective</b>	<b>3-4</b>		
<b>Collateral Elective III*</b> or Free elective	<b>3</b>	Gen Ed Humanit., Arts, Social Sci., Elective	6
Gen Ed Humanit., Arts, Social Sci., Elective	3-6	Free elective	3
Free elective	0-3		
	15-16		15-16
<b>Senior: Fall</b>		<b>Senior: Spring</b>	
<b>Geography major elective</b>	<b>3-4</b>	<b>Geography major elective</b>	<b>6-7</b>
<b>EUGS 466 or 464</b>	<b>3</b>		
Free elective**	9	Free elective**	9
	15-16		15-16

**MINIMUM TOTAL FOR GRADUATION IS 120 SEMESTER HOURS**

Sample program assumes that Gen Ed math and social science are satisfied within the major and collaterals. Additional Gen Ed Non-Western Cultural Perspectives and Gen Ed science lab may also be satisfied within the choice of courses in the major or collaterals.

\* Collateral elective III is necessary if a three-semester collateral elective sequence is selected, for instance, in Economics/Management, Sociology, or Anthropology. The third course takes the place of a free elective

\*\* Exact number of free electives required depends on the number of hours taken for the major (minimum of 36) and collaterals (minimum of 11), including some that may simultaneously fulfill Gen Ed requirement. Free electives may also be used to complete a minor or to take additional major courses.