

**Checksheet for the College Core Curriculum  
(Beginning with Freshmen Entering Fall 2001 and Transfers Entering Fall 2002)**

Name: \_\_\_\_\_

Advisor: \_\_\_\_\_

**Categories 1-10 of the CCC may be taken in the major.**

Grade	Course Title	Semester/Year	
<b>1. Basic Written Communication – 3 credit hours</b>			
<b>2. Mathematics/Quantitative Reasoning – 3 credit hours</b>	<b>Fulfilled by Requirements for ES Major</b>		
<b>3. Foreign Language – 3 credit hours</b> <small>(All students earning 85 or better on <i>Regents Exam</i> have fulfilled this requirement.) Beginning Fall 2004 for freshmen and Fall 2006 for transfers, students enrolled in programs granting the B.A. degree have a 6 credit hour foreign language requirement. All other students have a 3 credit hour foreign language requirement.</small>			
<b>4. The Arts – 3 credit hours</b>			
<b>5. The Humanities – 3 credit hours</b>			
<b>6. The Social Sciences – 6 credit hours</b> <small>(Two courses are required from this area, from two different disciplines.)</small>	1. <b><u>ECON 202</u></b> 2. _____	_____	_____
<b>7. The Natural Sciences – 6 credit hours</b> <small>(Two courses are required from this area, from two different disciplines. One course may be from the areas of Mathematics or Computer Science.)</small>	<b>Fulfilled by Requirements for ES Major</b>		
<b>8. American History – 3 credit hours **</b> <small>(Students who scored <u>below</u> 85 on the American History Regents test must take History 105, 106, 133 or other American History narrative; all others may take any course in this category.)</small>			
<b>9. Western Civilization – 3 credit hours **</b>			
<b>10. World History or Non-Western Civilization – 3 credit hours</b>			

<b>11. Speaking-Intensive Requirement – 0-6 credit hours</b> <small>(Courses satisfying any category will satisfy this requirement if they are also certified as speaking intensive. One course must be in the major, both can be.)</small>	<b>Fulfilled by Requirements for ES Major</b> <small>(by taking ES, Bio. &amp;/or Chem. seminars)</small>
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<b>12. Upper-Level Requirement – 0-6 credit hours—<i>must be taken at Fredonia.</i></b> <small>(Students must either (a) complete two courses in this category outside of their major discipline or (b) complete a second major, minor, or concentration, education certification, or accredited study-abroad program. The second major, minor, or concentration cannot be in the same discipline</small>	<b>Fulfilled by Requirements for ES Major</b>
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Requirements for the Bachelor of Science Major in

**ENVIRONMENTAL SCIENCE**

(Curriculum Code Number: 0363)

A. CORE REQUIREMENTS				Offered	When Taken		Grade
				F/S ?	Semester	Year	Rec'd.
<b>1. ENVIRONMENTAL SCIENCES</b> 10 credit hours							
ESCI	310	Methods in Environmental Analysis	3	F			
ESCI	410	Environmental Assessment	3	S			
ESCI	440	Environmental Science Seminar	1	Both			
ESCI	490	Environmental Science Practicum	3	Both			
<b>2. MATHEMATICS</b> 9-11 credit hours							
MATH	122	University Calculus I & II	8	Both			
MATH	123	(recommended)					
	or	or	or				
MATH	120	Survey of Calculus I & II	6	Both			
MATH	121						
STAT	250	Statistics for Scientists	3	Both			
<b>3. BIOLOGY</b> 16 credit hours							
BIOL	131	Principles of Biology I Lecture	3	F			
BIOL	132	Principles of Biology I Laboratory	1	F			
BIOL	133	Principles of Biology II Lecture	3	S			
BIOL	134	Principles of Biology II Laboratory	1	S			
BIOL	243	Biodiversity Lecture	3	S			
BIOL	244	Biodiversity Laboratory	1	S			
BIOL	330	General Ecology Lecture	3	F			
BIOL	331	General Ecology Laboratory	1	F			
<b>4. GEOSCIENCES</b> 12 credit hours							
GEO	165	Geology I	3	Both			
GEO	169	General Geology I Laboratory	1	Both			
GEO	330	Geomorphology	4	F			
GEO	450	Hydrogeology	4	S			
<b>5. GEOGRAPHIC INFORMATION SYSTEMS</b> 6 credit hours							
GIS	201	Geographic Information Systems I	3	F			
GIS	301	Geographic Information Systems II	3	S			
	or	or	or				
GEO	311	Global Climate	3	S			
<b>6. CHEMISTRY</b> 15 credit hours							
CHEM	115	General Chemistry I Lecture	3	Both			
CHEM	125	General Chemistry I Laboratory	1	F			
CHEM	116	General Chemistry II Lecture	3	Both			
CHEM	126	General Chemistry II Laboratory	1	Both			
CHEM	215	Organic Chemistry I Lecture	3	F			
CHEM	225	Organic Chemistry I Laboratory	1	F			
CHEM	317	Analytical Chemistry I	3	S			
	or	or	or				
CHEM	473	Environmental Aquatic Chemistry	3	S - odd			
	or	or	or				
CHEM	474	Environmental Atmospheric Chemistry	3	S - even			
<b>7. PHYSICS</b> 4-5 credit hours							
PHYS	121	College Physics I & Lab	4	F			
PHYS	123						
	or	or	or				
PHYS	230	University Physics I & Lab	5	S			
PHYS	232						
<b>8. ECONOMICS</b> 6 credit hours							
ECON	202	Microeconomics	3	Both			
ECON	380	Environmental Economics	3	S			
<b>9. HISTORY</b> 3 credit hours							
HIST	310	World Environmental History	3	S			
	prerequisite: (HIST) 102 or 116 or 135 (CCC)						
	or	or	or				
HIST	352	Environmental History of North America	3	F			
	prerequisite: (HIST) 105 or 106 or 133 (CCC)						
<b>TOTAL MINIMUM HOURS REQUIRED: 120</b>							