

BS IN ENVIRONMENTAL BIOLOGY/MICROBIOLOGY

(as approved by MMG Faculty, 06/21/96)

College of Natural Science

University (Integrative Studies & Tier I Writing Courses) (20 cr)

Tier 1 Writing (WRA 1XX)	4 credits
Social Behavioral and Economic Sciences (ISS 2XX & 3XX).	8 credits
Arts and Humanities (IAH ≤210 & ≥211).	8 credits

College of Natural Science (40 - 44 credits)

Mathematics (MTH) - 132 and 133	6 or 7 credits
<u>or</u> 124 and 126	
<u>or</u> 124 and STT 231 or STT 421	
<u>or</u> 132 and STT 231 or STT 421	
Physics (PHY)- 231, 232, 251, 252 (or web equivalent)	8 credits
<u>or</u> 183, 184, 191, 192	10 credits
Chemistry (CEM)-General-141, 142 <u>or</u> 151, 152	7 or 8 credits
Laboratory - 161, 162	2 credits
Organic - 251, 252, 255 <u>or</u> 351, 352, 355	8 credits
Biological Science (BS) - 110, 111, 111L	9 credits

Department Requirements (48 - 50 credits)

Civil Engineering - CE 280	3 credits
Crop and Soil Science - CSS 210	3 credits
Geology - GLG 201, 421	7 credits
Biochemistry - BMB 461, 462	6 credits
Zoology - ZOL 355, 355L	4 credits

Microbiology (MMG)

a. Core Courses:

Introductory Microbiology	301	3 credits
Introductory Microbiology Lab	302	1 credit
Advanced Microbiology Lab*	408	3 credits
Prokaryotic Cell Physiology	421	3 credits
Microbial Ecology	425	3 credits
Microbial Genetics	431	3 credits

b. Capstone Experience:

**Undergraduate Research Seminar	492	1 credit
<u>and</u> Undergraduate Research	≠499 or 499H	2 credits
<u>or</u>		
Current Topics in Microbiology	491	3 credits

(continued)

Department Requirements (continued)

One course from **each** of **two** of the following groups:

a.	Biogeochemistry	MMG 426	3 credits
b.	Food Microbiology	FSC 440+441	3 credits
c.	Basic Biotechnology	MMG 445	3 credits
d.	Organic Pollutants	CSS 455	3 credits
e.	Physical Geography or Intro to Geographic Inform	GEO 206 GEO 221	3 credits 3 credits
f.	Forest & Agric Ecology	FOR 404	4 credits
g.	Law and Resources or Environ Issue & Pub Policy	RD 430 ZOL 446	3 credits 3 credits
h.	Limnology or Comparative Limnology	FW 472 ZOL 431	3 credits 4 credits
i.	Microbial Genomics	MMG 433	3 credits

*Fulfills Tier II Writing requirement

**Recommended experience

⌘Variable credit course (1-3 credits per semester; 6 credit maximum)