

# BIOLOGY BS – Quantitative Track (127 hrs.)

**Effective 2012**

NAME _____	PID _____	Optional 2 <sup>nd</sup> Major or Minor _____
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## FOUNDATIONS

English Comp. and Rhetoric	Foreign Language* HSFL(s) _____	Quant. Reas. (QR)	Lifetime Fitness (LFIT)
ENGL 105 _____	1. _____ 2. _____	3. _____ 4. _____	MATH 231 or 241 _____  (1 hr)

\* Through Level 3

## APPROACHES

Phys. and Life Sciences (PL/PX) **	Social and Behavioral Sciences***	Humanities/Fine Arts
BIOL 101 _____ BIOL 101L _____	Hist. Analysis (HS):	Vis. & Perf. Arts (VP):
CHEM 101 _____ CHEM 101L _____	Soc.Sci./Hist. Analysis (SS/HS):	Literary Arts (LA):
	Soc.Sci./Hist. Analysis (SS/HS):	Phil. Reasoning (PH):

\*\*C or better in BIOL 101 and CHEM 101 or CHEM 102 and before taking BIOL 201 or 202 \*\*\*From at least two departments

## CONNECTIONS

Communication Int. (CI)	Quant. Int. (QI) or 2 <sup>nd</sup> Quant. Reas. (QR)	Experiential Ed. (EE)	Global Issues (GL)
BIOL 101L (w/ BIOL 101) _____	MATH 232 or MATH 283 _____		
US Diversity (US)	North Atlantic World (NA)	World before 1750 (WB)	Beyond the NA (BN)

## MAJOR/MINOR/ELECTIVES

BIOLOGY ♦ (8 courses)	ALLIED SCIENCES ♦♦ (9 courses)	Optional Minor _____	Electives	Electives
BIOL 201 (4) (QI) _____	PHYS 104 or 116 (4) _____	_____		
BIOL 202 (4) _____	PHYS 105 or 117 (4) _____	_____		
BIOL 205 (202 prereq.) (4) _____	CHEM 102 _____ L _____	_____		
BIOL 452, 525, 526, or 527/527L or 528 (4) (#) _____	CHEM 261 _____	_____		
w/Lab (#) (4) _____	COMP 116 or 401(4) _____	♦ 18 hours ≥ C (not C-) required (does not include BIOL 101/L or Allied Sciences). (#) Two lab courses. One must be quantitative lab chosen from BIOL 452, 525, 526, 527/527L or 528. The other can be any biology lab course, or a 6 credit-hour combination of BIOL 395 (two semesters), BIOL 211 + 395, or BIOL 395 + 691. Research hours in excess of 6 (up to the University maximum total of 12) will count as free electives. (##) A choice of three biology electives including two quantitative electives. The two quantitative electives must be chosen from BIOL 431, 452, 454, 465, 525, 526, 527, 528, 542, 551, 562, 563, or 642. BIOL 452, 525, 526, 527 and 528 cannot count as both a Quantitative lab and Quantitative elective. BIOL 691H for three credits can be included unless BIOL 395 has previously been taken, if so, BIOL 395 + 691H together counts toward the lab course requirement. The third elective may be any course approved for the biology major. ♦♦ A choice of two allied sciences electives or addl. Biology >205 (not including BIOL 213, 291, 292, 293, 294, 295, 296, 396, and 692H). Pre-med students are encouraged to take CHEM 241/241L and CHEM 262/262L.		
Quantitative (##) (3) _____	MATH 233 _____			
Quantitative (##) (3) _____	STOR 155 or BIOS 600 _____			
(##) _____	♦♦			
	♦♦			

**This tally assumes successful completion of presently enrolled courses (not AB or IN), and it does not account for all possible overlaps**

Date/Advisor	Date/Advisor	Date/Advisor	Date/Advisor
Remaining courses after this term: _____ Foundations _____ _____ Approaches _____ _____ Connections _____ _____ Supplemental _____ _____ Major 1 (hrs C _____) _____ _____ Major/minor (hrs C _____) _____ _____ Other _____	Remaining courses after this term: _____ Foundations _____ _____ Approaches _____ _____ Connections _____ _____ Supplemental _____ _____ Major 1 (hrs C _____) _____ _____ Major/minor (hrs C _____) _____ _____ Other _____	Remaining courses after this term: _____ Foundations _____ _____ Approaches _____ _____ Connections _____ _____ Supplemental _____ _____ Major 1 (hrs C _____) _____ _____ Major/minor (hrs C _____) _____ _____ Other _____	Remaining courses after this term: _____ Foundations _____ _____ Approaches _____ _____ Connections _____ _____ Supplemental _____ _____ Major 1 (hrs C _____) _____ _____ Major/minor (hrs C _____) _____ _____ Other _____
Hrs to date: _____ Hrs. in progress: _____ Total after this term: - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____	Hrs to date: _____ Hrs. in progress: _____ Total after this term: - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____	Hrs to date: _____ Hrs. in progress: _____ Total after this term: - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____	Hrs to date: _____ Hrs. in progress: _____ Total after this term: - 2x/HSFL/>24 _____ Hrs remaining to grad _____ Semesters Left: _____

## Allied Science Electives

### **Anthropology**

- 143 Human Evolution and Adaptation
- 148 Human Origins
- 315 Human Genetics and Evolution
- 317 Evolutionary Perspectives on Human Adaptation and Behavior
- 412 Paleoanthropology
- 414 Human Osteology
- 416 Bioarcheology
- 470 Medicine and Anthropology

### **Biology**

Any course above BIOL 101, except BIOL 113, 128, 213, 291, 292, 293, 396 or 692H. A maximum of 6 hrs of BIOL 395 alone or in combination with 211 or 691 may be used here or in the Biology core.

### **Biomedical Engineering**

- 510 Biomaterials

### **Biostatistics**

Any course

### **Chemistry**

Any course above CHEM 101

### **Computer Science**

Any course above COMP 101

### **Environmental Health Sciences (ENVR)**

- 100 Environ Protection

### **Environmental Studies (ENST)**

- 403 Envr Chem Processes
- 404 Mountain Biodiversity
- 410 Earth Processes in Envr. Sys.
- 411 Oceanic Processes
- 415 Envr. Systems Modeling
- 471 Human Estuarine Impacts
- 489 Ecological Processes.

### **Exercise and Sports Science**

- 175 Anatomy
- 276 Physiology

### **Geography**

- 110 Physical Geography
- 111 Weather and Climate
- 112 Environmental Conservation
- 253 Intro to Atmospheric Processes
- 404 Atmospheric Processes
- 445 Medical Geography

### **Geology**

Any courses above GEOL 100

### **Marine Sciences**

Any course above MASC 100

### **Mathematics**

Any course above MATH 110

### **Microbiology**

- 251 Elementary Bacteriology
- 255 Elementary Pathogenic Microbiology

### **Nutrition**

- 240 Introduction to Human Nutrition

### **Philosophy**

- 155 Introductory Symbolic Logic
- 356 Topics in Logic

### **Physics and Astronomy**

Any course above PHYS 99, except PHYS 132

### **Physiology**

- 202 Introduction to Physiology
- 203 Introduction to Physiology

### **Psychology**

- 101 General Psychology
- 210 Statistical Principles of Psyc. Research
- 220 Biopsychology
- 222 Learning
- 225 Sensation and Perception
- 230 Cognitive Psychology
- 400 Conditioning and Learning
- 401 Biological Foundations of Behavior
- 402 Physiological Psychology
- 403 Physiological Psychology Laboratory

### **Statistics and Operations Research**

Any course above STOR 151