

SCIENCE: BIOLOGY/LIFE SCIENCE

(Required if program completed after August 2013)

*2.5 GPA , C or better grade in each course

SCIENCE CORE:	22 cr
*CHEM C117 Principles of Chemistry & Biochemistry I	5
CHEM C118 Principles of Chem & BioCchem OR CHEM N330 Intermediate Inorganic chem.	5
*CHEM R340 Survey of Organic Chemistry OR CHEM C341 Organic Chemistry I	3
GEOL G103, G104 or G105 Earth Sciences	3
*PHYS P201/P221 General Physics I	5
* may be needed for biology courses	

OR Praxis II Middle School Science test 10439 score 137
may substitute for Core.

LIFE SCIENCE/BIOLOGY MAJOR 18cr Required

BIOL L111 Introduction to Biology: Evolution & Diversity	3
BIOL L112 Introduction to Biology: Biological Mechanisms	3
BIOL L113 Biology Lab	3
BIOL L211 Molecular Biology (P: L112)	3
BIOL L311 Genetics (P: L211)	3
BIOL L318 Evolution (P: L311)	3

**Electives: 2 lecture and 2 lab or
lecture/laboratory combination**

Lecture Courses:

B351 Fungi (3 cr)	
L312 Cell Biology (3)	
L317 Developmental Biology (3)	
L321 Principles of Immunology (3)	
L331 Introduction to Human Genetics(3)	
L473 Ecology (P:L318 or inst consent) (3)	
M250 Microbiology (3)	
M350 Microbial Physiology & Biochemistry (3)	
M430 Virology (3)	
M440 Medical Microbiology (3)	
M480 Microbial & Molecular Genetics (3)	
Z374 Invertebrate Zoology (3)	
Z466 Endocrinology (3)	
HPSC X308 History of Biology (3)	

Laboratory Courses

L352 Fungi Lab (2)	
Z318 Developmental Biology Lab (2)	
L319 Genetics Lab (P/C L311) (3)	
L323 Molecular Biology (3)	
L324 Human Molecular Biology (3)	
L474 Field and Lab Ecology (2)	
M255 Microbiology lab (2)	
M360 Microbial Physiology (3)	
M435 Viral Tissue Culture (3)	
M445 Medical Microbiology (3)	
M485 Microbial and Molecular Genetics (3)	
Z469 Endocrinology (2)	

Combined Lecture and Laboratory Courses

B300 Vascular Plants (4)	
B364 Summer Flowering Plants (4)	
B373 Mechanisms of Plant Development (4)	
Z373 Entomology (3)	
L376 Biology of Birds (4)	
Z406 Vertebrate Zoology (5)	
P451 Integrative Human Physiology (4)	
SPEA E455 Limnology (4)	
ANAT A464 Human Tissue Biology (4)	

**Not yet formally approved as license additions
for REPA Licensing Rules, the following
approved additions for Rules 2002 may form
study guidelines for additions by Praxis II
testing**

CHEMISTRY 14cr

Required Courses	
CHEM C341 Organic Chemistry I	3
CHEM C342 Organic Chemistry II	3
CHEM N330 Intermediate Inorganic (P: C117, C342 or R340)	5
CHEM C360 Introduction to Physical Chemistry (P: C117, Math M119, PHYS P201, R: N330)	3

EARTH-SPACE SCIENCE 16

Required courses	
GEOL G103 or G111 Earth Science: materials/processes	3
GEOL G104 or G112 Evolution of Earth/Historical Geol	3
AST A100 Solar System OR A221 General Astronomy I	3-4
AST A105 Stellar System OR A222 General Astronomy II	3-4
GEOL G225 Earth Materials	4
GEOG G304 Physical Meteorology	3

PHYSICS 13cr

PHYS P202 Physics II (or PHYS P222)	5
PHYS P301 Physics III or PHYS P300 General Physics III	3
PHYS P309 Modern Physics Lab	2
PHYS P310 Environmental Physics (P: physics II)	3