

SCIENCE: CHEMISTRY

(Required if program completed after August 2013)

*2.5 GPA, C or better grade in each course

Science Core: 24cr

BIOL L111 Introduction to Biology: Evolution & Diversity or	
BIOL L112 Introduction to Biology: Biological Mechanisms	3
GEOL G103, G104 or G105 Earth Sciences	3
PHYS P201 General Physics I (P: MATH M026) AND	5
PHYS P202 General Physics II, OR	5
PHYS P221 Physics I (P: MATH M211), 5cr AND	
PHYS P222 Physics II, 5cr	

OR Praxis II Middle School Science test 10439 score 137

CHEMISTRY major (2.5 GPA) 27 cr

Required Courses (16 cr)

CHEM C117 Principles of Chemistry & Biochemistry I	5
CHEM C341 Organic Chemistry I	3
CHEM C342 Organic Chemistry II (P: C341)	3
CHEM C343 Organic Chemistry Lab (P/C: C342)	2
CHEM C360 Intro to Physical Chem(P: P201 R: N330), or 3	
CHEM C361 Physical Chemistry of Bulk Matter or	
CHEM C362 Physical Chemistry of Molecules	

Complete additional 11cr from

CHEM N330 Intermediate Inorganic,	5
(P: C342, R340; P/C: C343) Strongly Recommended)	
or	
CHEM C118 Principles of Chemistry & Biochemistry	
CHEM A314 Biol. & Envir. Chemical Analysis or	2
(P: C341 and MATH M119/M211)	
CHEM A318 Analytical Chemistry or	4
(P: C341 and MATH M211)	
CHEM C317 Equilibria and Electrochem and	2
(P: C341 and MATH M211)	
CHEM C318 Spectrochemistry & Separations	2
CHEM A315 Chemical Measurements Lab	2
(P: A314, A318 or C317&C318)	
CHEM A318 Bioanalytical Chemistry Laboratory	2
(P/C: A314, P: A318 or C317&C318)	
CHEM C344 Organic Chemistry II Lab (P: C343)	2
CHEM C364 Introduction to Basic Measurements or	3
(P: C361)	
CHEM P364 and P464 Measurements in Physical	2
Chemistry (P: C361)	
CHEM C430 Inorganic Chemistry	3
(P: C118/N330, R: C362)	
CHEM C432 Spectroscopic Methods in Inorganic	3
Chemistry (P: C361 & C430)	
CHEM C437 Inorganic Chem Lab(P: C343 & C430)	3
CHEM C443 Organic Spectroscopy (P: C342, C362)	3
CHEM C460 Nuclear Chemistry (P:C360 & C361)	3
CHEM C461 Physical Biochemistry(C361 & C484)	3
CHEM C483 Biological Chemistry(P: C342) or	3
CHEM C384 Biomolecules & Catabolism (P: C342)	3
and CHEM C485 Biosynthesis & Physiology	3

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

LIFE SCIENCE BIOLOGY 15 cr

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

EARTH-SPACE SCIENCE 16-19 cr

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 8 cr

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