

LIFE SCIENCE / CHEMISTRY LICENSURE**Biology Requirements: (27 sem. hrs. req.)**

BIO 151	Concepts of Biology I.....	3
BIO 151L	Biology Laboratory Investigation I.....	1
BIO 152	Concepts of Biology II.....	3
BIO 152L	Biology Laboratory Investigations II.....	1
BIO 301	Evolution.....	3
BIO 309	Comparative Anatomy.....	3
BIO 309L	Comparative Anatomy Laboratory.....	1
BIO 310	Ecology.....	3
BIO 310L	Ecology Laboratory.....	1
BIO 314	Plant Biology.....	3
BIO 314L	Plant Biology Laboratory.....	1
BIO 411	General Microbiology.....	3
BIO 411L	General Microbiology Laboratory.....	1

Chemistry Requirements: (20 sem. hrs. req.)

CHM 123	General Chemistry I.....	3
CHM 123L	General Chemistry I Laboratory.....	1
CHM 124	General Chemistry II.....	3
CHM 124L	General Chemistry II Laboratory.....	1
CHM 201	Quantitative Analysis.....	3
CHM 201L	Quantitative Analysis Laboratory.....	1
CHM 313	Organic Chemistry I.....	3
CHM 313L	Organic Chemistry I Laboratory.....	1
CHM 314	Organic Chemistry II.....	3
CHM 314L	Organic Chemistry II Laboratory.....	1

Earth Science & Physics Requirements: (12 sem. hrs. req.)

GEO 115	Physical Geology.....	3
GEO 115L	Physical Geology Laboratory.....	1
PHY 201	General Physics I.....	3
PHY 201L	General Physics I Laboratory.....	1
PHY 202	General Physics II.....	3
PHY 202L	General Physics II Laboratory.....	1

Math Requirements: (8 sem. hrs. req.)

MTH 168	Analytic Geometry and Calculus I.....	4
MTH 169	Analytic Geometry and Calculus II.....	4

Computer Requirements:

Use of computers is required in BIO 151L and BIO 152L. Students who do not possess needed skills should take CPS 111 or a higher level CPS course.

LIFE SCIENCE / PHYSICS LICENSURE**Biology Requirements: (27 sem. hrs. req.)**

BIO 151	Concepts of Biology I.....	3
BIO 151L	Biology Laboratory Investigation I.....	1
BIO 152	Concepts of Biology II.....	3
BIO 152L	Biology Laboratory Investigations II.....	1
BIO 301	Evolution.....	3
BIO 309	Comparative Anatomy.....	3
BIO 309L	Comparative Anatomy Laboratory.....	1
BIO 310	Ecology.....	3
BIO 310L	Ecology Laboratory.....	1
BIO 314	Plant Biology.....	3
BIO 314L	Plant Biology Laboratory.....	1
BIO 411	General Microbiology.....	3
BIO 411L	General Microbiology Laboratory.....	1

Physics Requirements: (20 sem. hrs. req.)

PHY 206	General Physics I—Mechanics.....	3
PHY 207	General Physics II—Electricity and Magnetism.....	3
PHY 208	General Physics III—Mechanics of Waves.....	3
PHY 210L	General Physics Laboratory I.....	1
PHY 211L	General Physics Laboratory II.....	1
PHY 250	Descriptive Astronomy.....	3
PHY 321	Atomic and Nuclear Physics.....	3
PHY 395	Research Participation I.....	1
<u>Select additional courses to total 20 hours in Physics:</u>		
PHY 303	Intermediate Mechanics I.....	3
PHY 333	Digital and Analog Electronics for Scientists.....	3

Chemistry & Earth Science Requirements: (16 sem. hrs. req.)

CHM 123	General Chemistry I.....	3
CHM 123L	General Chemistry I Laboratory.....	1
CHM 124	General Chemistry II.....	3
CHM 124L	General Chemistry II Laboratory.....	1
CHM 313	Organic Chemistry I.....	3
CHM 313L	Organic Chemistry I Laboratory.....	1
GEO 115	Physical Geology.....	3
GEO 115L	Physical Geology Laboratory.....	1

Math Requirements: (12 sem. hrs. req.)

MTH 168	Analytical Geometry and Calculus I.....	4
MTH 169	Analytical Geometry and Calculus II.....	4
MTH 218	Analytical Geometry and Calculus III.....	4

Computer Requirements:

Use of computers is required in BIO 151L, BIO 152L, PHY 210L, and PHY 211L. Students who do not possess needed skills should take CPS 111 or a higher level CPS course.