

EARTH / CHEMISTRY LICENSURE

Earth Science Requirements: (24 sem. hrs. req.)

GEO 115	Physical Geology	3
GEO 115L	Physical Geology Laboratory.....	1
GEO 116	Geological History of the Earth	3
GEO 116L	Geological History of the Earth Laboratory.....	1
GEO 201	Mineralogy	3
GEO 201L	Mineralogy Laboratory	1
GEO 208	Environmental Geology	3
GEO 208L	Environmental Geology Laboratory	1
GEO 301	Structural Geology	3
GEO 301L	Structural Geology Laboratory	1
<u>Select additional courses to total 24 hours in Geology:</u>		
GEO 307	Geomorphology	3
GEO 307L	Geomorphology Laboratory.....	1
GEO 309	Surface and Groundwater Hydrology	3
GEO 309L	Surface and Groundwater Hydrology Laboratory... 1	1
GEO 303	Field Geology	6
GEO 401	Paleontology	3
GEO 401L	Paleontology Laboratory	1
GEO 403	Sedimentary	3
GEO 403L	Sedimentary 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
<u>Select additional courses to total 20 hours in Chemistry:</u>		
CHM 302	Physical Chemistry	3
CHM 314	Organic Chemistry II	3
CHM 314L	Organic Chemistry II Laboratory	1
CHM 341	Environmental Chemistry	3
CHM 341L	Environmental Chemistry Laboratory	1
CHM 420	Biochemistry	3

Biology & Physics Science Requirements: (8 sem. hrs. req.)

BIO 151	Concepts of Biology I	3
BIO 151L	Biology Laboratory Investigation I	1
PHY 201	General Physics I	3
PHY 201L	General Physics I 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.

LIFE SCIENCE / EARTH 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

Earth Science Requirements: (24 sem. hrs. req.)

GEO 115	Physical Geology	3
GEO 115L	Physical Geology Laboratory	1
GEO 116	Geological History of the Earth	3
GEO 116L	Geological History of the Earth Laboratory	1
GEO 201	Mineralogy.....	3
GEO 201L	Mineralogy Laboratory	1
GEO 208	Environmental Geology	3
GEO 208L	Environmental Geology Laboratory	1
GEO 301	Structural Geology	3
GEO 301L	Structural Geology Laboratory	1

Select additional courses to total 24 hours in Geology:

GEO 303	Field Geology	6
GEO 307	Geomorphology	3
GEO 307L	Geomorphology Laboratory	1
GEO 308	Problems and Decisions in Environmental Geology.....	3
GEO 308L	Problems and Decisions in Environmental Geology Lab ... 1	1
GEO 309	Surface and Groundwater Hydrology	3
GEO 309L	Surface and Groundwater Hydrology Laboratory.....	1
GEO 401	Paleontology	3
GEO 401L	Paleontology Laboratory	1
GEO 403	Sedimentology	3
GEO 403L	Sedimentology Laboratory	1
PHY 250	Descriptive Astronomy	3

Chemistry & Physics 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
PHY 201	General Physics I	3
PHY 201L	General Physics I Laboratory	1

Math Requirements: (6 sem. hrs. req.)

MTH 148	Introductory Calculus I	3
MTH 149	Introductory Calculus II	3

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.