

Student Name _____ Date _____

Transcript Analysis by _____

NOTE TO CREIGHTON UNDERGRADUATES: Choose a major area for your bachelor's degree in Biology, Chemistry, or Physics, and contact an advisor in one of the three departments.

CREIGHTON UNIVERSITY FIELD ENDORSEMENT IN SCIENCE

Revised February 09, 2015

Science Endorsement with Biology Emphasis

Creighton Courses		Credits	Equivalent Courses
27 Credits of BIOLOGY			
BIO 201/205	General Biology: Organismal and Pop. w/ lab	4	
BIO 202/206	General Biology: Molecular & Cellular w/ lab	4	
BIO 317/318	Genetics w/ lab	4	
BIO 449/450	Animal Physiology w/lab	4	
BIO 481	Terrestrial Ecology OR	4	
BIO 485/486	Marine and Freshwater Ecology with Lab		
BIO 571	Animal Behavior	3	
BIO 581	Evolution	4	
8-9 Credits of Chemistry			
CHM 203	General Chemistry I	3	
CHM 204	General Chemistry I Lab	1	
CHM 205/206	General Chemistry II with Lab OR	4 OR	
CHM 285/286	Advanced General Chemistry II w/lab	5	
8 Credits of Physics			
PHY 201/205	General Physics for the Life Sciences I	4	
PHY 202/206	General Physics for the Life Sciences II	4	
8 Credits of Earth & Space Science			
PHY 109/110	Intro Astronomy with Lab	4	
ATS/EVS 113/114	Introduction to Atmospheric Sciences w/lab	4	
Total Credits in Science		51-52	
Professional Education Courses		29-40	See undergrad or grad bulletin

Note: Creighton students must also take Math 245 Calculus I.

Science Endorsement with Chemistry Emphasis

Creighton Courses		Credits	Equivalent Courses
23-26 Credits of Chemistry			
CHM 203	General Chemistry I	3	
CHM 204	General Chemistry I Lab	1	
CHM 205	General Chemistry II	3	
CHM 206	General Chemistry II Lab	1	
CHM 315	Quantitative Analysis	4	
OR			
CHM 285 (3) CHM 286 (2) (may be substituted for CHM 205, 206, and 315)	Advanced General Chemistry II w/lab	5	
CHM 321	Organic Chemistry Lecture I	3	
CHM 322	Organic Chemistry Lab I	1	
CHM 323	Organic Chemistry Lecture II	3	

CHM 324	Organic Chemistry Lab II	1	
CHM 341	Physical Chemistry I	3	
*Check with Chemistry advisor on P-Chem II & Math 532 requirement		TBD	CU Chemistry Majors Only
CHM 381	Fundamentals of Biochemistry	3	
8 Credits of Biology			
BIO 201/205	General Biology: Organismal and Pop. w/ lab	<u>4</u>	
BIO 202/206	General Biology: Molecular & Cellular w/ lab	<u>4</u>	
8 Credits of Physics			
PHY 213/205 OR PHY 201/205	General Physics for Physical Sciences I General Physics for the Life Sciences I	4	
PHY 214/206 OR PHY 202/206	General Physics for Physical Sciences II General Physics for the Life Sciences II	4	
8 Credits of Earth & Space Science			
PHY 109/110	Intro Astronomy & Lab	4	
ATS/EVS 113/114	Intro to Atmospheric Sciences w/lab	4	
Total Credits in Science		47-50	
Professional Education Courses		29-40	See undergrad or grad bulletin

Note: Creighton students must also take Math 245 Calculus I & Math 246 Calculus II.

Science Endorsement with Physics Emphasis

Creighton University Courses		Credits	Equivalent Courses
24-26 CREDITS IN PHYSICS AS INDICATED			
PHY 205	General Physics I Lab	<u>1</u>	
PHY 206	General Physics II Lab	<u>1</u>	
PHY 213	General Physics I	<u>3</u>	
PHY 214	General Physics II	<u>3</u>	
PHY 301	Modern Physics	<u>3</u>	
PHY 302	Modern Physics Laboratory	<u>1</u>	
PHY 303	Electronics Laboratory	<u>1</u>	
PHY 331	Physical Optics	<u>3</u>	
PHY 332	Optics Laboratory	<u>1</u>	
PHY 471	Classical Mechanics	<u>3</u>	
PHY 481	Electricity and Magnetism	<u>3</u>	
PHY 491 PHY 591	Seminar OR Seminar in Engineering	<u>1 OR</u> <u>3</u>	
24-25 CREDITS IN OTHER SCIENCES PER LISTED REQUIREMENTS			
BIO 201/205	General Biology: Organismal and Pop. w/ lab	<u>4</u>	
BIO 202/206	General Biology: Molecular & Cellular w/ lab	<u>4</u>	
CHM 203/204	General Chemistry I w/ lab	<u>4</u>	
CHM 205/206 CHM 285/286	General Chemistry II and Lab OR Advanced General Chemistry II w/lab	<u>4 OR</u> <u>5</u>	
ATS/EVS 113/114	Introduction to Atmospheric Sciences w/lab	<u>4</u>	
PHY 109 & 110	Introductory Astronomy w/lab	<u>4</u>	
Total Credits in Science		48-51	
PROFESSIONAL EDUCATION COURSES		29-40	See undergrad or grad bulletin

Note: Creighton students must also take Math 245 Calculus I, Math 246 Calculus II, & Math 347 Calculus III.