

2012-13 BS Biological Sciences

120 Credit minimum

*designates only grades of "C" or better (not 'C-') may be used to fulfill these requirements

GENERAL REQUIREMENTS

COMMUNICATIONS:- (9)

*Engl 111X Intro to Academic Writing (3)_____

Engl 211X Academic Writing -Literature

OR Engl 213X Academic Writing - Social & Nat. Sci.(3)_____

Comm 131X Group Communications OR 141X Public Speaking (3)_____

PERSPECTIVES ON THE HUMAN CONDITION:-(18-22)

Complete 6 courses listed OR 4 of those listed plus 2 semester length courses in a single AK Native or other non-English language or 3 semester length courses (9 credits) in American Sign Language. All Perspectives Core require English 111 placement; 200 level courses- sophomore standing or higher; 300 level - junior standing or higher

Anth 100X/Soc 100X Individual, Society & Culture (3)_____

Econ/PS 100X World Political Economy (3)_____

Hist 100X World History (3)_____

Art/Mus/Thr 200X or Hum 201X or Ans 202X Art Appreciation (3)_____

Engl/FL 200X World Literature (3)_____

BA 323X or Comm 300X or Just 300X or NRM 303X or Phil 322X or PS 300X (these are all 300 level Ethics courses) (3)_____

Language option as listed above- but may not be counted under minor requirements:

_____ () _____ () _____ () _____ ()

MATHEMATICS & STATISTICS:- (6-7)

Requires recent Math Placement and/or prereqs

*Stat 200X Elementary probability & stats(3)_____

OR *Stats 300 Statistics (3)_____

*Math 272X Calculus for Life Sciences (3)_____

OR *Math 200X Calculus (4)_____

NATURAL SCIENCE:- (8)

CHEM 105 is a pre/co-req for BIOL 115 -both require MATH 107 & ENGL 111 or higher placement. You MUST have passed CHEM 105 (C or higher) prior to taking BIOL 115 or be concurrently enrolled – for concurrent enrollment, if you drop CHEM 105 during the semester, the BIOL 115 faculty may also drop you from their course as well.

*CHEM 105X General Chemistry I (4)_____

*CHEM 106X General Chemistry II (4)_____

LIBRARY & INFO SKILLS:- (0-1)

LS competency test _____ OR LS 100X or 101X (1)_____

WRITING AND ORAL INTENSIVE COURSES:

Required: 2 DESIGNATED (W); AND

1 DESIGNATED (O) COURSE OR 2 DESIGNATED (O/2) AT THE UPPER DIVISION LEVEL:

_____ (W) _____ (W) and

_____ (O) OR _____ (O/2) _____ (O/2)

UPPER DIVISION CREDITS (300 & 400-level):- (39)

Transfer Credits _____ minimum of 24 UAF Credits _____

*MAJOR REQUIREMENTS

(All BIOL courses higher than BIOL 116 listed below have BIOL 115/116 as well as at least Math 107/Engl 111 placement prereqs)

*1. Complete the following :- (31)

*BIOL 115X Fundamentals of Biology I – Fall, Math 107 & Engl 111 placement, *Chem 105 or concurrent enrollment prereq (4)_____

*BIOL 116X Fundamentals of Bio II – Spring, Biol 115X (4)_____

*BIOL 360/261 Cell & Molecular, Chem 105 & 106, and Biol 260/362 prereq, cross-listed w/CHEM 261 (was 4, now 3)_____

*BIOL 371/271 Principles of Ecology, LS 100/101 prereq (4)_____

*BIOL 260/362 Principles of Genetics, CHEM 105, Math 107 prereqs (4)_____

*BIOL 481 Principles of Evolution, BIOL 260/362; STAT 200 prereq (or concurrent enrollment in STAT 200), junior standing or higher, stacked w/ BIOL 681, (4) _____

*PHYS 103X College Physics I - Fall, DEVM 105 & ENGL 111 placement (4)_____ and *PHYS 104X College Physics II - Spring (4)_____

OR *PHYS 211X General Physics I – concurrent enrollment in MATH 201 ^ (4)_____ and *PHYS 212X General Physics II – concurrent enrollment in MATH 202; PHYS 211 or ES 208 or concurrent enrollment in ES 210 prereq ^ (4)_____

2. Complete the following: - (4-6)

*BIOL 303 Principles of Metabolism & Biochem – NO LONGER AVAIL.

OR *CHEM 321 Organic Chem I, Fall, Chem 106 prereq ^ (3)_____ and

*CHEM 322 Organic Chem II, Spring, Chem 321 prereq ^ (3)_____

OR *CHEM 321 Organic Chem I, Fall 2013 or later, Chem 106 prereq ^ (4)_____

3. Complete the following: - (4-8)

*BIOL 310 Animal Physiology, Fall, CHEM 105/106 prereq (4)_____

OR *BIOL 434/334 Structure and Function in Vascular Plants, Spring odd years, Biol 239, Engl 111 & 211/213 prereqs ^ (W) (4)_____

OR *BIOL 342 Microbiology, Spring, Chem 105 prereq (4)_____

OR *BIOL 213/111X Human Anatomy & Physiology I, Fall, Placement in DEVM 105 and ENGL 111 or higher prereqs ^;

Recommended high school biology & algebra, and

Chem 103/104 or Chem 105/106 (4)_____ and

*BIOL 214/112X Human Anatomy & Physiology II, Spring, Biol 111X prereq (4)_____

^ or permission of instructor

4. *Complete 20 credits of Biology Electives. May substitute up to 10 credits of chemistry w/petition approval. Only 6 credits of individual study (-97) may apply to this requirement.

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ELECTIVES** (for a total of 130 credits):

_____ () _____ () _____ () _____ () _____ () _____ () _____ () _____ ()

***A minor is optional with a BS Degree – see current catalog for more details & requirements. If a minor is selected, there will be fewer free electives required.*

Credits for core/general requirements: 42-47

Credits required for major: 60-66

Elective credits: 7-18

Total credits required for degree: 120