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
Anh 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)

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 prereq (4)
*BIOL 481 Principles of Evolution, BIO 360/362, STAT 200 prereq (or concurrent enrollment in STAT 200), junior standing or higher, stacked w/ BIOL 681, (4)

PHYS 303X College Physics I - Fall, DEV 105 & ENGL 111 placement (4) and PHYS 104X College Physics II - Spring (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)

*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 DEV 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.


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