B.S. Degree Requirements
120 Credits

GENERAL REQUIREMENTS

COMMUNICATIONS:- (9)
- Engl 111X (3)
- Engl 211X or 213X (3)
- Comm 131X or 141X (3)

PERSPECTIVES ON THE HUMAN CONDITION:- (18-22)
- Complete the 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.
- Anth 100X/Soc 100X (3)
- Econ/PS 100X (3)
- Hist 100X (3)
- Art/Mus/Thr 200X or Hum 201X or
  Ans 202X (3)
- Engl/FL 200X (3)
- BA 323X or Comm 300X or Just 300X or Nrm 303X or
  Phil 322X or PS 300X (3)
Language option as listed above:

ELECTIVES (for a total of 120 credits):

MATHEMATICS:- (18)
- Math 200X (4)
- Math 202X (4)
- Math 201X (4)
- Complete 6 Math credits at the 300 level or above:

NATURAL SCIENCE:- (8)
- Complete any two 4-credit Core Natural Science Courses
  (only one course may be PHYS)

LIBRARY & INFO SKILLS:- (0-1)
- LS competency test OR
- LS 100X or 101X (1)

UPPER DIVISION CREDITS:- (39)
- Transfer Credits
- UAF Credits (24)*
- TOTAL TO DATE:
- TO BE COMPLETED:

Credits for core/general requirements: 54
Credits required for major: 56
Elective credits: 10
Total credits required for degree: 120

*Designates only grades of "C" or better may be used to fulfill this requirement.

*MAJOR REQUIREMENTS

Complete the following:- (54)

- Phys 211X (4)
- Phys 212X (4)
- Phys 213X (4)
- Phys 220 (4)
- Phys 301 (4)
- Phys 313 (4)
- Phys 341 (4)
- Phys 342 (4)
- Phys 343 (4)
- Phys 381 (3) (W,O)
- Phys 382 (3) W
- Phys 421 (4)
- Phys 462 (4)
- Phys 471 (3)
- Phys 472 (3)

+May be used to meet one year sequence requirement.

COMPLETE 2 DESIGNATED (W) COURSES AND
1 COURSE DESIGNATED (O) OR 2 COURSES
DESIGNATED (O/2) AT THE
UPPER DIVISION LEVEL:

(W) (W)
(O) OR (O/2) (O/2)
**Physics BS Recommended Curriculum:**

*Begins with math placement in Math 201 - Calculus II*

### First Year: Fall
- PHYS 211X - General Physics I 4
- ENGL 111X - Intro to Academic Writing 3
- MATH 201 - Calculus II 4
- PHYS 113 - Concepts of Physics 1
- Core Perspectives (1 of 6) 3 15

### First Year: Spring
- PHYS 212X - General Physics II 4
- Comm 131X/141X 3
- MATH 202X - Calculus III 4
- LS 101 - Library Science 1
- Core Perspectives (2 of 6) 3 15

### Second Year: Fall
- ENGL 213X - Academic Writing Soc/Nat 3
- CHEM 105 - General Chemistry I 4
- Physics 213X - Elementary Mod. Physics 4
- PHYS 313 - Thermo and Stat Physics 4
- Core Perspectives (3 of 6) 3 18

### Second Year: Spring
- PHYS 301 - Intro to Math Physics 4
- CHEM 106X - General Chemistry II 4
- PHYS 220 - Computational Physics 4
- Upper Division Elective 3 15

### Third Year: Fall
- MATH 421 - Applied Analysis 4
- PHYS 341 - Class Physics: Part Mech 4
- PHYS 381W/O - Physics Laboratory 3
- Core Perspectives (4 of 6) 3 14

### Third Year: Spring
- PHYS 342-Class Phys II: E & M 4
- PHYS 382W- Physics Advanced Lab 3
- MATH 422 - Intro Complex Analysis 3
- Core Perspectives (5 of 6) 3 13

### Fourth Year: Fall
- PHYS 343- Class Phys: Vibrations/Waves 4
- PHYS 421- Quantum Mechanics 4
- PHYS 471- Advanced Topics I 3
- Upper Division Elective 3

### Fourth Year: Spring
- PHYS 462- Optics 4
- PHYS 472- Advanced Topics 3
- MATH Elective 3
- Upper Division Elective (Oral Instensive) 3
- Core Perspectives (6 of 6) 3 17

### Suggested electives for a total of 130 credits:
- NRM 452 (3)
- CS 202 (3)
- MATH 308 (3)
- MATH 310 (3)
- MATH 412 (3)
- MATH 305 (3)
- ENGL 314 (3)