PHYSICS

B.S. Degree Requirements

130 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 130 credits):**

   ( ) ___ ( ) ___ ( ) ___

   ( ) ___ ( ) ___ ( ) ___

   ( ) ___ ( ) ___ ( ) ___

   ( ) ___ ( ) ___ ( ) ___

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: ___

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

*Major Requirements

Complete the following:- (53)

Phys 113 (1)___
Phys 211X (4)___+
Phys 212X (4)___+
Phys 213X (4)___+
Phys 311 (4)___
Phys 312 (4)___
Phys 313 (4)___
Phys 331 (3)___
Phys 332 (3)___
Phys 381 (3)___(W/O)
Phys 382 (3)___(W)
Phys 411 (4)___
Phys 412 (4)___
Phys 445 (4)___
Phys 462 (4)___

+E 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) ___ (O/2) ___

Credits for core/general requirements: 60:
Credits required for major: 53:
Elective credits: 13-17:
Total credits required for degree: 130:
## Physics BS schedules:

### Begins with math placement in Math 108 - Trigonometry

#### First Year: Fall
- CHEM 105X - General Chemistry I 4
- ENGL 111X - Intro to Academic Writing 3
- LS 101- Library Info and Research 1
- MATH 108 - Trigonometry 3
- PHYS 113 - Concepts of Physics 1
  - Core Perspectives (1 of 6) 3 15

#### Second Year: Fall
- ENGL 211X or 213X 3
- MATH 201X - Calculus II 4
- PHYS 211X - General Physics I 4
  - Core Perspectives (3 of 6) 3
  - Core Perspectives (4 of 6) 3 17

#### Third Year: Fall
- MATH 302 - Differential Equations 3
- PHYS 311- Mechanics 4
- PHYS 331- Electricity and Magnetism 3
- PHYS 381- Physics Laboratory 3 13

#### Fourth Year: Fall
- MATH 421 (or other 300+ level math elective) 4
- PHYS 313- Thermodynamics and Statistical Phys 4
- PHYS 411- Modern Physics 4
- PHYS 462- Geometrical and Physical Optics 4 16

This totals 118 credits. Suggested electives for a total of 130 credits:

- PHYS 220 (4)
- CS 201 (3)
- MATH 308 (3)
- MATH 310 (3)
- MATH 412 (3)
- ENGL 314 (3)

### Begins with math placement in Math 200X - Calculus I

#### First Year: Fall
- CHEM 105X - General Chemistry I 4
- ENGL 111X - Intro to Academic Writing 3
- LS 101- Library Info and Research 1
- MATH 200X - Calculus I 4
- PHYS 113 - Concepts of Physics 1
  - Core Perspectives (1 of 6) 3 13

#### Second Year: Fall
- ENGL 211X or 213X 3
- MATH 202X - Calculus III 4
- PHYS 212X - General Physics II 4
  - Core Perspectives (3 of 6) 3
  - Core Perspectives (4 of 6) 3 17

#### Third Year: Fall
- MATH 302 - Differential Equations 3
- PHYS 311- Mechanics 4
- PHYS 331- Electricity and Magnetism 3
- PHYS 381- Physics Laboratory 3 14

#### Fourth Year: Fall
- PHYS 313- Thermodynamics and Statistical Phys 4
- PHYS 411- Modern Physics 4
- PHYS 462- Geometrical and Physical Optics 4 16

This totals 116-118 credits. Suggested electives for a total of 130 credits:

- PHYS 220 (4)
- CS 201 (3)
- MATH 308 (3)
- MATH 310 (3)
- MATH 412 (3)
- ENGL 314 (3)