

Maps A - Z Library ULink

Current Students Faculty & Staff

About Us

Admissions

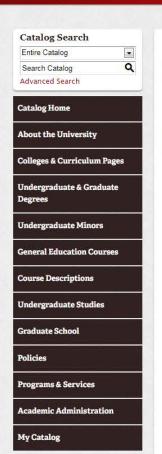
Academics

Campus Life

Athletics

2019-2020 Undergraduate and Graduate Academic Catalog

Research



Physics, B.S., Geology and Geophysics Concentration



Return to: Undergraduate & Graduate Degrees

Degree Awarded: Bachelor of Science

Total Credit Hours:

Career Opportunities: Observations, planetariums, science museums, airports, nuclear power plants,

universities, colleges.

General Education Core Curriculum

Core Curriculum

Freshman Year

Required Courses

- UNIV 100 First Year Seminar 3 Credit(s)
- CHEM 107 General Chemistry | 3 Credit(s)
- CHEM 108 General Chemistry II 3 Credit(s)
- CMPS 150 Introduction to Computer Science 3 Credit(s)
- ENGL 101 Introduction to Academic Writing 3 Credit(s)
- . ENGL 102 Writing and Research About Culture 3 Credit(s)
- MATH 270 Calculus I 4 Credit(s)
- MATH 301 Calculus II 4 Credit(s)
- PHYS 201 General Physics I 4 Credit(s)
- PHYS 191 Seminar I 0 Credit(s)

PHYS 192 - Seminar II 0 Credit(s)

Total: 32 Credits

Sophomore Year

Required Courses

- BIOL 110 Fundamentals of Biology I 3 Credit(s)
- BIOL 112 Fundamentals of Biology I Lab 1 Credit(s)
- ENGL 365 Technical Writing 3 Credit(s)
- GEOL 111 Physical Geology 4 Credit(s)
- GEOL 112 Historical Geology 4 Credit(s)
- MATH 302 Calculus III 4 Credit(s)
- MATH 350 Differential Equations 3 Credit(s)
- PHYS 202 General Physics II 4 Credit(s)
- PHYS 215 Physics Laboratory I 1 Credit(s)
- PHYS 216 Physics Laboratory II 1 Credit(s)

 PHYS 291 - Seminar I 0 Credit(s) • PHYS 292 - Seminar II 0 Credit(s)

Electives

Social/Behavioral Sciences (3 Credits)

Choose from the General Education Core list of Social/Behavioral Science courses. Three hours must be at the 200-level or above.

Total: 31 Credits

Junior Year

Required Courses

- GEOL 314 Structural Geology 4 Credit(s)
- PHIL 202 Critical Thinking 3 Credit(s)
- PHYS 301 General Physics III 3 Credit(s)
- PHYS 311 General Physics Laboratory III 1 Credit(s)
- PHYS 312 General Physics Laboratory IV 1 Credit(s)
- PHYS 323 Mechanics 3 Credit(s)
- PHYS 391 Seminar I 0 Credit(s)
- PHYS 392 Seminar II 0 Credit(s)
- PHYS 405G Thermodynamics 3 Credit(s)
- PHYS 411G Computational Physics Laboratory 3 Credit(s)

Electives

English Literature (3 Credits)

Choose from the General Education Core list of Literature courses.

Social/Behavioral Sciences (3 Credits)

Choose from the General Education Core list of Social/Behavioral Science courses. Three hours must be at the 200-level or above.

Mathematics (3 Credits)

Choose from:

- MATH 362 Elementary Linear Algebra 3 Credit(s)
- MATH 440G Vector Analysis 3 Credit(s)
- MATH 450G Mathematical Modeling 3 Credit(s)
- MATH 455G Numerical Methods 3 Credit(s)
- MATH 495G Advanced Mathematics for Engineers and Scientists 3 Credit(s)

Total: 30 Credits

Senior Year

Required Courses

- GEOL 420G Geophysics I 4 Credit(s)
- PHYS 324 Electromagnetic Theory 3 Credit(s)
- PHYS 437G Quantum Mechanics I 3 Credit(s) NAME AND R 1 B 1 1 B 6 1-73
- PHYS 491 Seminar I 1 Credit(s)

