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## Physics, B.S., Geology and Geophysics Concentration



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**Degree Awarded:** Bachelor of Science

**Total Credit Hours:** 120

**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 I **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)**

or

• 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)**
- or
- PHYS 292 – Seminar II **0 Credit(s)**

## Electives

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### Social/Behavioral Sciences (3 Credits)

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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**

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## Junior Year

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### Required Courses

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- 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

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### English Literature (3 Credits)

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Choose from the General Education Core list of Literature courses.

### Social/Behavioral Sciences (3 Credits)

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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)

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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**

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## Senior Year

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### Required Courses

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- GEOL 420G – Geophysics I **4 Credit(s)**
- PHYS 324 – Electromagnetic Theory **3 Credit(s)**
- PHYS 437G – Quantum Mechanics I **3 Credit(s)**
- PHYS 491 – Seminar I **1 Credit(s)**

- **PHYS 497 – Senior Research I 3 Credit(s)**

## Electives

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### Geology (2 Credits)

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Choose from BIOL 200,300, or 400 level.

### Fine Arts (3 Credits)

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Choose from the [General Education Core list](#) of Fine Arts courses.

### History (3 Credits)

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Choose from the [General Education Core list](#) of History courses.

### Mathematics (3 Credits)

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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)**
- STAT 325 – Introduction to Statistics **3 Credit(s)**

## Total: 27 Credits

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University of Louisiana at Lafayette  
104 E. University Circle  
Lafayette, LA 70503  
(337) 482-1000  
[webmaster@louisiana.edu](mailto:webmaster@louisiana.edu)

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