



OGLETHORPE UNIVERSITY

B.S. Physics - All Tracks Except Engineering (20-21 Bulletin)

<https://bulletin.oglethorpe.edu/9-major-minor-programs-requirements/>

CORE Requirements

<u>Freshman Year</u>	<u>Sophomore Year</u>	<u>Junior Year</u>	<u>Senior Year</u>	<u>Required Humanities</u>	<u>Required Math</u>
COR 101 (4hrs) COR 102 (4hrs)	COR 201 (4hrs) COR 202 (4hrs)	COR 301 (4hrs) COR 302 (4hrs)	COR 400 (4hrs)	Choose One: COR 103 (4hrs) COR 104 (4hrs) COR 105 (4hrs)	COR 314 (4hrs)

Overall Graduation Requirements

<http://bulletin.oglethorpe.edu/8-degrees-offered-graduation-requirements/8-5-graduation-requirements/8-5-4>

Regardless of whether a student is working toward the Astrophysics Track, the Computational Physics Track, or the General Physics Track, completion of all the following courses:

- CSC 201 Introduction to Computer Programming
- MAT 131 Calculus I
- MAT 132 Calculus II
- MAT 233 Calculus III
- PHY 201 College Physics I (and laboratory, PHY 101L)
- PHY 202 College Physics II (and laboratory, PHY 102L)
- PHY 203 Modern Physics (and laboratory, PHY 203L)
- PHY 331 Electricity and Magnetism I
- PHY 333 Thermal and Statistical Physics
- PHY 334 Quantum Mechanics.

Regardless of whether a student is working toward the Astrophysics Track, the Computational Physics Track, or the General Physics Track, completion of all the courses listed in one of the three options below.

Option 1:

- PHY 204 Mathematical Physics

Option 2 (highly recommended for those wishing to pursue graduate studies in physics):

- MAT 236 Differential Equations
- MAT 241 Proof and Logic
- MAT 372 Linear Algebra

Option 3:

- MAT 236 Differential Equations
- MAT 238 Linear Algebra for Engineering and Economics

The final responsibility for meeting all graduation requirements stated in the Oglethorpe Bulletin rests with the student.

See the Oglethorpe Bulletin for a complete list of graduation requirements: <http://bulletin.oglethorpe.edu/>

For students pursuing a B.S. in Physics-Astrophysics Track only:

- Completion of PHY 100 Introduction to Descriptive Astronomy
- Completion of PHY 420 Advanced Physics Lab
- Completion of one additional course chosen from the following:
- PHY 335 Modern Optics (and laboratory, PHY 335L)
- PHY 490 Advanced Special Topics in Theoretical Physics
- PHY 491 Advanced Special Topics in Experimental Physics

For students pursuing a B.S. in Physics-Computational Physics Track only, completion of all of the following courses:

- CSC 202 Data Structures
- PHY 206 Computational Physics
- PHY 211 Classical Mechanics I (and laboratory, PHY 211L).

For students pursuing the B.S. in Physics-General Physics Track only, completion of all of the following courses:

- PHY 211 Classical Mechanics I (and laboratory, PHY 211L)
- PHY 420 Advanced Physics Lab
- One additional Physics course indexed higher than PHY 211.

Additional requirements and things to note:

- A grade of "C-" or better is required for each of the following courses (and for each of their associated lab courses): PHY 201, PHY 202, and PHY 203. ([Back to ToC](#))
- A cumulative grade-point average of 2.0 or higher is required for all courses contributing to the major.
- PHY 490 and PHY 491 may each be taken more than once providing that different topics are covered each time.
- Students pursuing the Astrophysics Track should enroll in PHY 490 and/or PHY 491 courses with an astronomy or cosmology focus. Prior consultation with Physics faculty is required in order to guarantee that a particular topic covered in PHY 490 and/or PHY 491 is appropriate and will satisfy the requirements for the Astrophysics Track.
- Evaluation by, and consultation with, Physics faculty (and especially the Physics program coordinator) is generally required in order to permit transfer work to count for any of the courses required for the major.

Things to Remember

- Meet with your Academic Advisor before registering for courses
- Create a 4-year graduation plan and update every semester.
- Visit your faculty during their office hours.
- Complete your Petrel Points during your first semester at Oglethorpe.
- Visit the Study Abroad Office
- Visit the Career Development Office
- Visit the A_Lab
- Visit Academic Success