



DEPARTMENT OF  
**PHYSICS**  
College of Arts and Sciences

## Pioneer solutions with a degree in Physics

**BECOME** a scientist, engineer, doctor, investment analyst or educator!  
**DISCOVER** fundamental properties of matter and energy!  
**ADDRESS** environmental challenges with new materials!



	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR+
Your Courses	Build the foundation with courses in intro physics ( <b>PHYS 2014</b> ), math ( <b>MATH 2144, 2153</b> ), chemistry ( <b>CHEM 1314</b> ), and <b>GEN ED</b> .	Complete general physics foundation ( <b>PHYS 2114, 2203</b> ) and expand math skills in calculus and differential equations ( <b>MATH 2163, 2233, PHYS 3513</b> ).	Learn mechanics and modern physics ( <b>PHYS 3013</b> ) and develop lab skills ( <b>PHYS 3323</b> ). Complement your math skills with linear algebra ( <b>MATH 3013</b> ).	Complete specialized physics classes in E&M, and quantum mechanics ( <b>PHYS 4113, 4513, 4813</b> ). Do a dedicated senior research project ( <b>PHYS 4712</b> ).
Your Experience	Reach out to faculty members to <b>explore available research opportunities</b> for undergraduate students.	Join a research group and pick a project to work on. Begin to <b>attend research group meetings</b> and report your progress.	Develop strong analytical and experimental skills and work with graduate students. <b>Present your results at the OSU Annual Research Symposium.</b>	<b>Present your results</b> at a local, regional, or national meeting.
Your Community	Join the <b>OSU Society of Physics Students</b> . Find student study groups. Participate in tailgates and physics picnics.	Consider becoming a Physics (LASSO) tutor. <b>Join the OSU Physics Tournament Team.</b>	Participate in outreach activities with high school students visiting the department and attending presentations for the <b>Physics and Astronomy club.</b>	<b>Attend local job fairs</b> and explore potential work opportunities. Think of your professional future in context of the society at large.
Your Career Readiness	Talk to faculty members and your advisor about degree and <b>career opportunities (industry, teaching, research)</b>	Apply for scholarships such as <b>Wentz, Niblack, Beckman</b> as well as <b>Physics Department Scholarships.</b>	Apply for research scholarships and <b>NSF Research Experience for Undergraduates program.</b>	Make decisions about graduate school, career in industry, national laboratory, government. <b>Apply to an NSF Graduate Research scholarship.</b>
Your Personalized Path	Consider a research certificate or second major or minor in computer science, math, or engineering.			

### YOU WILL LEARN

About underlying laws of all phenomena in real world. How to perform accurate measurements and successful experiments. How to analyze and visualize data How to discuss, present, and publish scientific results.

### WHAT IS NEXT

**Explore job opportunities in:** Data Science, Engineering, Quality Control, Science writer, Educator

**Enter professional school, such as:** Graduate school Medical School.

Learn more about building your custom path, visit:  
[physics.okstate.edu](http://physics.okstate.edu)

