

What Can I Do With This **Ohio State** Major?

Bachelor of Science

Engineering Physics

College of Engineering

Physicists are concerned with an extremely broad range of natural phenomena extending from the submicroscopic world of elementary particles to the vast reaches of the cosmos and the origins of the universe, from the simplest of everyday activities to the behavior of matter at the furthest extremes in energy, temperature, distance, and time. The defining characteristic of physics is the quest for the underlying logic, the theoretical structure that unifies and explains all the different phenomena that are studied experimentally. Engineering Physics majors combine the knowledge and content from Physics coursework with the applied focus of Engineering coursework while taking electives in one of several Engineering disciplines: Aeronautical and Aerospace, Computer and Information Science, Electrical and Computer, Industrial and Systems, Chemical and Biomolecular, Materials Science, Mechanical, or Nuclear. ¹

Career Areas/Job Titles:

Science and Technology

Applied Physicist
Aircraft/Automotive Engineer
Computer Programmer
Electrical/Computer Engineer
Nuclear Engineer
Product Engineer
Software Engineer
Systems Developer & Engineer
Laboratory Technician
Particle Accelerator Operator

Research Scientist
Satellite Data Analyst
Journalist/Photographer
Management and Industry
Lighting Technology Designer
Mechanical Design Engineer
Web Communications Spec.
Technical Writer
Technology Business Analyst
Quality Control Expert
Instrumentation Specialist

Education

K-12 Science Teacher
Professor
Academic/Career Counselor
Government/Politics
Science Patent Examiner
Alternative Fuels
Researcher Government
Agency R&D

** Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.*

Transferable Skills:

Basic Computer Skills
Computer Programming
Engineering Fundamentals
Mathematic Skills
Physics Foundation
Speaking Effectively
Technical Writing
Use Technology Effectively
Written Communication
Teamwork
Conceptualization

Creativity/Imagination
Defining Needs
Developing Evaluation
Strategies
Experimental Design
Forecasting/Predicting
Gathering Information
Identifying Problems
Research Skills
Setting Goals
Adaptability/Flexibility

Attention to Detail
Judgment & Decision Making
Implementing Decisions
Planning
Prioritizing Tasks
Creating Innovative Solutions
Multi-Tasking
Quantitative Reasoning
Data Analysis
Analytical/Critical Thinking
Problem Solving

**This is not an extensive list of transferable skills. See larger list of skills you might develop here:*

<http://ccss.osu.edu>

Professional Links:

American Institute of Physics: <http://www.aip.org/>

American Physical Society: <http://www.aps.org/>

Society of Engineering Science: <http://www.sesinc.org/>

National Society of Professional Engineers: <http://www.nspe.org/index.html>