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.

**Career Areas/Job Titles:**

**Science and Technology**
- Research Scientist
- Satellite Data Analyst
- Journalist/Photographer
- Aircraft/Automotive Engineer
- Computer Programmer
- Electrical/Computer Engineer
- Nuclear Engineer
- Product Engineer
- Software Engineer
- Systems Developer & Engineer
- Laboratory Technician
- Particle Accelerator Operator
- Quality Control Expert
- Technical Writer
- Web Communications Spec.
- Lighting Technology Designer
- Mechanical Design Engineer
- Technology Business Analyst

**Government/Politics**
- Science Patent Examiner
- Researcher Government
- Agency R&D
- Alternative Fuels
- Management and Industry
- Journalist/Photographer
- Architecture/Urban Planning
- Environmental Science
- Energy Supply/Policy
- Government
- Policy

**Education**
- K-12 Science Teacher
- Professor
- Academic/Career Counselor
- Technical Writer
- Mathematics
- Math Education
- Physics Education
- Science Education
- Computer Science Education
- Science Planning
- Science Administration

**Professional Links:**
- American Institute of Physics: [http://www.aip.org/](http://www.aip.org/)

*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

*This is not an extensive list of transferable skills. See larger list of skills you might develop here: [http://ccss.osu.edu](http://ccss.osu.edu)*