Physics is the natural science involving a general analysis of nature, conducted in order to understand how the universe behaves. It involves the study of matter and its motion through space and time, along with related concepts such as energy and force. Physics overlaps with many interdisciplinary areas such as astronomy, biology, chemistry, and geology. Physics also makes significant contributions through advances in new technologies that arise from theoretical breakthroughs. Research in physics includes the following specialty areas: condensed matter physics; solid-state physics; atomic, molecular, and optical physics; particle physics; astrophysics; geophysics and biophysics. Some positions for which four-year graduates in physics are qualified are in research, teaching, engineering, medicine, and industry.

Degree Options at Hartnell:

Associate in Science in Physics for Transfer Degree (AS-T)

Overview

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Related Careers

- Aerodynamist
- Astro Physicist
- Chemical Physicist
- Computer System Engineer
- Geophysicist
- Laboratory Technician
- Physics Teacher
- Medical Physicist
- Meteorologist
- Researcher
- Nuclear Physicist
- Research & Development Scientist
- Process Engineer
- Satellite Data Analyst
- Technical Consultant
- Technical Salesperson
- Test Engineer

Related Skills

- Define research problems
- Design equipment
- Develop and write research proposals and models
- Draw meaningful conclusions
- Establish experimental designs
- Establish hypotheses
- Evaluate ideas
- Gather/analyze data
- Identify/classify materials
- Inform, explain, instruct
- Mathematical modeling, formula use
- Measure distances, relationships
- Observe data
- Perform calculations
- Prepare technical reports
- Review scientific literature
- Summarize research findings
- Use instruments