

PHYSICS

University of Northern Iowa College of Humanities, Arts & Sciences

<https://www.physics.uni.edu/>

ABOUT THE MAJOR

Physics is the natural science that studies matter, its motion, and behavior through space and time, and that studies the related entities of energy and force. Physics is one of the most fundamental scientific disciplines, and its main goal is to understand how the universe behaves. Physicists conduct research into physical phenomena, develop theories on the basis of observation and experiments, and devise methods to apply physical laws and theories

SAMPLE COURSEWORK

Physics I for Science and Engineering	Undergraduate Research in Physics
Calculus I, II, III	Mathematical Methods of Physics
Physics III: Theory and Simulation	Quantum Mechanics
Modern Physics	Electrodynamics

POSSIBLE CAREERS *some titles may require further education

Accelerator Operator	High School Teacher	Optical Engineer	Technical Specialist
Applications Engineer	IT Consultant	Researcher	Web Developer
Data Analyst	Lab Technician	Software Developer	Physical Scientist
Design Engineer	Laser Engineer	Systems Analyst	Policy Analyst

UNI GRADUATES: WHERE ARE THEY NOW?

- John Deere
- Oracle
- Collins Aerospace
- Los Alamos National Laboratory
- Sandia National Laboratories
- University of Nebraska-Lincoln
- Hysitron, Inc.
- Decathlon Australia
- Nikulski Financial, Inc.
- Peak Vista Community Health Centers
- KPMG US
- Army Research Laboratory
- Manawa School District
- Joliet Junior College
- Dipont Education
- Des Moines Public Schools



SKILLS NEEDED

- Intellectual skills
- Critical and analytical thinking
- Communication skills
- Organization skills
- Research skills
- Numeracy and computing skills
- Problem solving skills
- Technical skills
- Project development

HOLLAND CODES

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