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

- IRE