PHYSICS

What can I do with this major?

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PRINT RESOURCES



OVERVIEW OF MAJOR

(All Available in the Career Resource Library in The Career Center)

Opportunities in Aerospace Careers

(CS/MA/EG Category)

Opportunities in Technical Writing Careers

(EN/WR Category)

Careers in Renewable Energy (ENV Category)

(Erri caregory)

Green Jobs

(ENV Category)

Quick Guide to College Majors & Careers

(CP Category)

Graduate Programs: Physical Sciences, Mathematics, Agriculture Studies, The Environment & Natural Sciences (Grad Section)

Graduate Programs: Engineering & Applied Sciences

(Grad Section)

How to Write a Winning Personal Statement for Graduate and Professional School (Grad Section) A major in physics leads to a fundamental understanding of nature and technology, an ability to think creatively, and a highly developed set of problem solving skills. The analytical track is suited for students preparing for graduate study in physics or a related field. The applied science track is for majors interested in technical subjects such as computing, engineering, or the health professions. The general track allows a concentration in nontechnical areas such as finance, education, or science writing.

PHYSICS DEPARTMENT SITE:

WWW.LOYOLA.EDU/PHYSICS

COURSE CATALOGUE:

 $\frac{WWW.CATALOGUE.LOYOLA.EDU/CATALOGUES/CURRENT/UNDERGRADUATE/ARTSANDSCI/}{PHYSICS.HTML\#PAGELINK1}$

ACADEMIC ADVISING AND SUPPORT CENTER:

www.loyola.edu/department/aasc.aspx

POTENTIAL JOB TITLES

♦ Mathematician

♦ Research Scientist

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♦ Teacher

 $\lozenge \ College \ Professor$

♦ Science Writer

♦ Atomic Physicist

♦ Reactor Operator

♦ Environmental Research Analyst

♦ Technical Publications Writer

♦ Geophysicist

♦ Space Physicist

♦ Forensic Scientist

♦ Industrial Physicist

♦ Hydrologist

♦ Bio-physicist

♦ Water Pollution Control Inspector

♦ Aerospace Engineering Technician

♦ Cartographer (Map Scientist)

WHERE CAN I GET AN INTERNSHIP?



♦ Loyola University Maryland

♦ University of Maryland

♦ Johns Hopkins Applied Physics Lab

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♦ General Physics Corporation

♦ Merrill Lynch

♦ American Physical Society

♦ Verizon Federal Network Systems

♦ State of Maryland

 \Diamond Baltimore County Public Schools

 $\lozenge \ \textbf{Aberdeen Proving Ground}$

♦ Bechtel Corporation

SAMPLE WEB RESOURCES

American Association for the Advancement of Science

www.aaas.org

American Geophysical Union

www.agu.org

American Institute of Aeronautics and Astronautics

www.aiaa.org

American Institute of Physics

www.aip.org

American Physical Society

www.aps.org/careers

Institute of Physics

www.iop.org

Physics Today Career Network

www.physicstoday.org/jobs

Society of Physics Students

www.spsnational.org/cup

Possible Career Fields

ASTRONOMY

TEACHING ◊ RESEARCH ◊ WRITING

ACOUSTICAL PHYSICS

Basic & Applied Research \Diamond Development \Diamond Teaching \Diamond Consulting Administration \Diamond Testing

ASTROPHYSICS, BIOPHYSICS, FLUID & PLASMA PHYSICS

TEACHING ♦ CONSULTING ♦ ADMINISTRATION ♦ DEVELOPMENT ♦ DESIGN
BASIC & APPLIED RESEARCH

GEOPHYSICS, NUCLEAR PHYSICS, SOLID STATE PHYSICS

BASIC & APPLIED RESEARCH ◊ DEVELOPMENT ◊ TEACHING ◊ CONSULTING ADMINISTRATION ◊ EXPLORATION ◊ QUALITY CONTROL ◊ LAW

HEALTH, MEDICAL & OPTICAL PHYSICS

BASIC & APPLIED RESEARCH ◊ DEVELOPMENT ◊ TEACHING ◊ CONSULTING
ADMINISTRATION ◊ MONITORING/INSPECTION

SCIENCE EDUCATION

TEACHING ♦ COMPUTER SOFTWARE DEVELOPMENT ♦ WRITING & EDITING EDUCATIONAL RESEARCH ♦ LIBRARY & INFORMATION SCIENCES

TECHNICAL

Engineering (Process & Testing) \Diamond Quality Control \Diamond Research Design/Development \Diamond Technical Writing \Diamond Computer Technology



Sample graduate programs pursued by Physics majors:

- ♦ MS/PhD, Applied Physics or Physics
- ♦ MS, Electrical, Mechanical, Materials Engineering
- ♦ MS, Space Sciences
- \Diamond Master of Medical Physics
- ♦ MD/PhD
- ♦ MS, Geophysics, Nanoscale Physics
- ♦ MA/PhD, Teaching or Education
- ♦ Master of Health Physics
- ♦ JD. Law
- ♦ Master in Scientific Computing, Computer Game Design, Computer Animation

Possible Work Settings

COLLEGES & UNIVERSITIES & OBSERVATORIES & MILITARY & SCHOOLS

GOVERNMENT LABORATORIES & AGENCIES & CONSULTING FIRMS & LIBRARIES

NON-PROFIT FOUNDATIONS & RESEARCH CENTERS & SCIENCE MUSEUMS

MILITARY & HOSPITALS & ENVIRONMENTAL & ENGINEERING FIRMS

SOFTWARE DEVELOPERS & RESEARCH & DEVELOPMENT FIRMS & AIRPORTS

ATOMIC & NUCLEAR LABS & PROFESSIONAL & TECHNICAL JOURNALS

IMPORTANT SKILLS & ABILITIES

Communication \Diamond Research \Diamond Mathematical \Diamond Laboratory

Computer \Diamond Analytical \Diamond Writing \Diamond Detail Oriented \Diamond Reasoning

Problem Solving \Diamond Technology \Diamond Synthesizing

Contact The Career Center:

Phone: 410-617-2232

Email: thecareercenter@loyola.edu

Website:

www.loyola.edu/thecareercenter