What can I do with my Major?

MATHEMATICS-PHYSICS

UCONN DEPARTMENT: Mathematics

To learn more about this major check out the department website or schedule a meeting with an academic advisor.

NATURE OF WORK

While mathematics in a broad sense is concerned with understanding patterns of all kinds, the mathematics-physics major focuses on the kinds of mathematical patterns that are important in physics. There are broad applications of physics in many industries, including manufacturing, computer technology, engineering, medicine, pharmaceuticals, and chemical companies. Research labs, higher education, and government also employ physicists. Those with training in both mathematics and physics are of interest to financial firms as well. Opportunities in academia often require a graduate degree.

Mathematics prepares graduates with transferable skills and qualities that can be beneficial in a variety of industries and careers.

UCONN RESOURCES

Q Center
Research Exposure and Education Development in STEM (REEDS)
UConn Math Club
UConn Physics Club
Women in Math, Science, and Engineering (WiMSE)

Additional organizations (and the most current information) can be found at the UConn Student Activities website.

PROFESSIONAL ASSOCIATIONS & ADDITIONAL RESOURCES

American Mathematical Society
American Physical Society
American Institute of Physics
American Astronomical Society
American Vacuum Society
American Association of Physicists in Medicine
American Nuclear Society
American Association of Physics Teachers
Acoustical Society of America
Mathematical Association of America
Materials Research Society
National Council of Teachers in Mathematics
Optical Society of America
Society of Exploration Geophysicists
Society of Physics Students

SAMPLE JOB TITLES

Visit O*Net and conduct an Occupation Quick Search of each job title to learn more about that career path.

Aerospace Engineer
Astrophysicist
Atomic Physicist
Cardiac Imaging Researcher
Chemical Physicist
Cost Estimator/Analyst
Cryptologist
Demographer
Econometrician
Financial Associate
Geophysicist
Health Physicist
Inventory Control Specialist
Mathematician
Market Analyst
Mathematical Physicist
Medical Physicist
Military Weapons Designer
Nuclear Physicist
Nuclear Plant Manager
Numerical Analyst
Optical Analyst
Optical Devices Designer
Optical Physicist
Plasma Physicist
Quality Assurance Analyst
Research Analyst
Satellite Missions Analyst
Science Writer/Editor
Senior Technical Advisor
Seismologist
Software System Consultant
Software Support Specialist
Solid State Physicist
Space Photographic Data Analyst
Stratigrapher
Teacher/Professor
Technical Consultant

A liberal arts and sciences education develops critical thinking, written and oral communication, versatility and problem-solving skills, which are valuable in any career and will help students adapt to an ever-changing world.