SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR

Fall
MAT2010: Calculus I
AST2010/2011: Descriptive Astronomy + Lab
English (Basic Composition)
University Group Requirement

Winter
CHM1220/1230: General Chemistry I + Lab
MAT2020: Calculus II
PHY2170/2171: General Physics I + Lab
English (Intermediate Composition)
University Group Requirement

SOPHOMORE YEAR

Fall
MAT2030: Calculus III
PHY2180/2181: General Physics II and Lab
PHY3300/3310: Introductory Modern Physics and Lab
University Group Requirement

Winter
MAT2150: Differential Equations & Matrix Algebra
AST4100: Astronomical Techniques
AST4200: Astronomical Laboratory
College Foreign Language I
College Group Requirement
University Group Requirement

JUNIOR YEAR

Fall
CHM2220/2230 or 2280/2290
Elective I
Elective II
College Foreign Language II
University Group Requirement

Winter
AST4300 Planetary Astronomy and Space Science
Elective III
College Foreign Language III
College Group Requirement
University Group Requirement

SENIOR YEAR

Fall
AST5010 Astrophysics and Stellar Astronomy
Elective IV
Elective V
College Group Requirement
University Group Requirement
Seminar

Winter
AST5100 Galaxies and the Universe
Elective VI
College Group Requirement
University Group Requirement

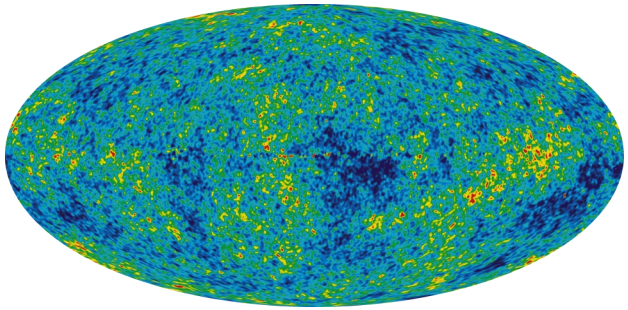
AIM HIGHER
wayne.edu (877) WSU-INFO

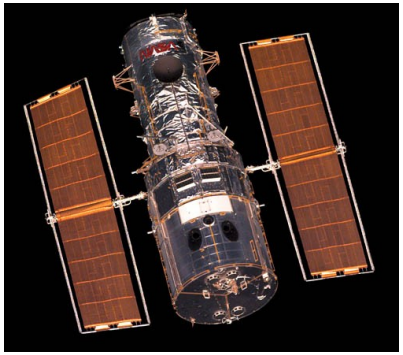
College of Liberal Arts and Sciences

Rev. 04-2011

WAYNE STATE UNIVERSITY

New Bachelor of Arts Degree in ***Astronomy***





www.physics.wayne.edu

B.A. IN ASTRONOMY

This new and exciting 120 credit program provides an introduction and foundation in modern astronomy.

The program covers topics in

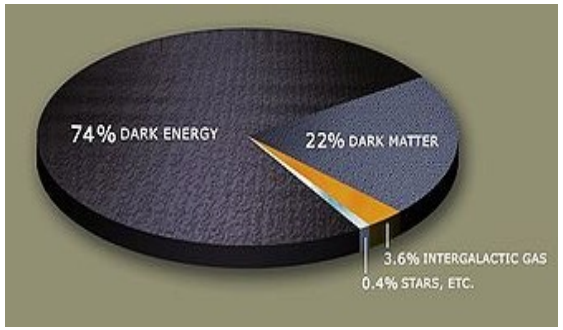
- Astronomical techniques
- Cosmology
- Planetary astronomy
- Space science
- Galaxies, and the Universe

The New Program

This program combines classes in physics and astronomy, with optional courses in other disciplines, to prepare students for the job market of tomorrow. It is intended for liberal arts majors interested in science but wanting a lighter load of mathematically intensive courses than a B.A./B.S. physics major.

This program is ***unique***, and is not offered at any other university in Michigan.

The program provides entry to a full spectrum of job and further education options for liberal arts majors in law, business, education, graduate programs in social and physical sciences. The B.A. degree in astronomy can lead to exciting and rewarding careers at NASA, in education, scientific journalism, as well as advanced studies in astronomy and physics.



ASTRONOMY COURSES

The following courses, some of which are new courses in the Department of Physics and Astronomy, provide the backbone of the new B.A. in Astronomy.

AST4100 Astronomical Techniques (3 Cr)
AST4200 Astronomical Laboratory (2 Cr)
AST4300 Planetary Astronomy and Space Science (3 Cr)
AST5010 Astrophysics and Stellar Astronomy (3 Cr)
AST5100 Galaxies, and the Universe (3 Cr)

ELECTIVE COURSES

PHY3700 Mathematics for Biomedical Physics (4 Cr)
PHY5100 Methods of Theoretical Physics (3 Cr)
PHY5200 Classical Mechanics I (3 Cr)
PHY5210 Classical Mechanics II (3 Cr)
PHY5340 Optics (3 Cr)
PHY5341 Optics Laboratory (2 Cr)
PHY5620 Electronics and Electrical Measurements (5 Cr)
CHM5160 Instrumental Analytical Chemistry
HIS5407 The Scientific Revolution
Other 5000 or 6000 level courses

UNIVERSITY/COLLEGE REQUIREMENTS

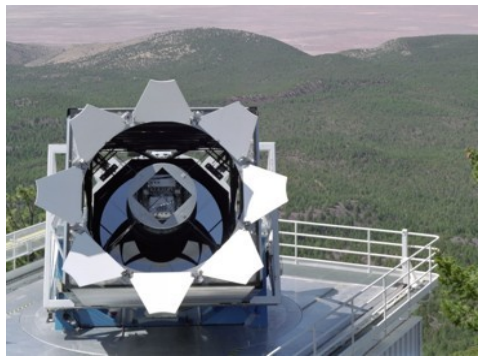
Students must also fulfill the University General Education Requirements as well as the College of Liberal Arts and Sciences language and science requirements.

For more information, contact Professor David Cinabro, Undergraduate Student Advisor, Department of Physics and Astronomy,135 Physics Bldg., 666 W. Hancock, Detroit, MI 48201

cinabro@physics.wayne.edu

Modern Planetarium

Roof top Observatory



Faculty participation in SDSS and LSST collaborations