



NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Physics Bachelor of Science

2014-2015

2013-2014 Undergraduate Catalog

Four Year Progression Plan

Sample Progression Plans are for planning purposes only, see the catalog for official details.

Year 1 - Fall		
MAT 136	Calculus I	4
PHY 103	First-year Seminar	1
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3
DIV ELECTIVE	Diversity Elective	3

Year 1 - Spring		
Choose one of the options below:		
Option: A		
PHY 161	University Physics I	4
Option: B		
PHY 171	Univ Physics I For Physicists	5
MAT 137	Calculus II	4
ENG 105	Critical Read/Writing In Univ	4
LIBST COURSE	Liberal Studies Course	3

Year 2 - Fall		
PHY 262	University Physics II	3
PHY 262L	University Physics II Lab	1
MAT 238	Calculus III	4
DIV ELECTIVE	Diversity Elective	3
LIBST COURSE	Liberal Studies Course	4
GE COURSE	General Elective Course	1

Year 2 - Spring		
PHY 263	University Physics III	3
PHY 264	Electronics For Science Sdtns	3
PHY 265	Intro To Computational Physics	3
MAT 239	Differential Equations	3
LIBST COURSE	Liberal Studies Course	3

Year 3 - Fall		
PHY 301	Methods Of Analytical Physics	3
PHY 321	Mechanics I	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3

Year 3 - Spring		
PHY 331	Electricity And Magnetism I	3
PHY 333W	Advanced Lab	3
PHY 361	Modern Physics	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

Year 4 - Fall		
CAPSTONE COURSE	Capstone Course	3
PHY 471	Quantum Mechanics	3
PHY 332	Electricity And Magnetism II	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

Year 4 - Spring		
PHY 441	Thermal & Statistical Physics	3
MAJOR ELECTIVE	Major Elective	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3

Submit graduation application this term.

University Requirements Specified by Major	
Foundation Requirements: English (FNRQ:ENG)	ENG 105 (4)
Foundation Requirements: Math (FNRQ:MAT)	MAT 137 (4)
Science/Applied Science (SAS/LAB)	MAT 136 (4)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.
You may count only one physics or astronomy course with a grade of D toward the major requirements for this degree.

* MAT 136, MAT 137, MAT 238, & MAT 239 are not required for this degree, but are pre-requisites for other courses.

** Capstone Course includes one of the following:

- 3 units of PHY 498C or
- 1 unit of PHY 498C and 2 units of PHY 485C.

*** Major elective includes 3 units of upper division physics or astronomy courses.

**** CHM 151/L are the recommended courses for the lab science block.

Advanced Physics and Astronomy courses are usually offered only once per year; 300-level astronomy courses are usually offered once every other year. Typical sequencing is as follows:

Every fall semester: AST 280, PHY 301, PHY 321, PHY 332, PHY 471, PHY 498C, plus elective

Every spring semester: PHY 264, PHY 265, PHY 331, PHY 361, PHY 333W, and PHY 441

Fall of even-numbered years: AST 401/401L

Fall of odd-numbered years: AST 391

Spring of even-numbered years: AST 392

Spring of odd-numbered years: AST 390

CONTACT INFORMATION

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PHY 262	University Physics II	(3)
PHY 262L	University Physics II Lab	(1)
or		
PHY 172	Univ Physics II For Physicists	(5)