

# Bachelor of Science Physics

2009-2010 Undergraduate Catalog

# **Degree Progression Plan**

Freshman Year							
1 <sup>st</sup> term				2 <sup>nd</sup> term			
PHY 161	University Physics I	4		PHY 262	University Physics II	3	
MAT 136	Calculus I (SCI: SAS) *	4		PHY 262L	University Physics II Lab	1	
DIV	Diversity	3		MAT 137	Calculus II (FNRQ) *	4	
LS	Liberal Studies	3		ENG 105	Critical Reading and Writing (FNRQ)	4	
PHY 103	First Year Seminar	1		LS	Liberal Studies	3	
Total units			5		Total units	15	

Sophomore Year								
3 <sup>rd</sup> term				4 <sup>th</sup> term	erm			
PHY 263	University Physics III	3	PHY 264	Electronics for Science Students	3			
MAT 238	Calculus III *	4	PHY 265	Introduction Computational Physics	3			
DIV	Diversity	3	MAT 239	Differential Equations *	3			
LS	Liberal Studies ****	4	LS	Liberal Studies	3			
GE	General Electives	1	LS	Liberal Studies	3			
	Total unit	s 15		Total units	15			

Junior Year							
5 <sup>th</sup> term			6 <sup>th</sup> term				
PHY 321	Mechanics I	3	PHY 333W	Advanced Lab	3		
PHY 301	Methods of Analytical Physics	3	PHY 361	Modern Physics	3		
LS	Liberal Studies	3	PHY 331	Electricity & Magnetics I	3		
GE	General Elective	3	GE	General Elective	3		
GE	General Elective	3	GE	General Elective	3		
	Total units	15		Total units	15		

Senior Year							
7 <sup>th</sup> term			8 <sup>th</sup> term				
CAP	Capstone Course **	3	PHY 441	Thermal & Statistical Physics	3		
PHY 471	Quantum Mechanics	3	LS	Liberal Studies	3		
PHY 332	Electricity & Magnetics II	3	LS	Liberal Studies	3		
ME	Major Elective ***	3	GE	General Elective	3		
GE	General Elective	3	GE	General Elective	3		
	Total units			Total units	15		

## Liberal Studies Distribution blocks

AHI (6 units)	SPW (6 units)	CU (6 units)	Science (7 units)	Additional 3 units
			MAT 136 (4)	to reach 35 total

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### PROGRAM INFORMATION

A minimum of 120 units are required 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 include 3 units of upper division physics or astronomy courses.

\*\*\*\* Chemistry is the recommended course for the SCI: LAB Block.

You may not count more than one grade below a C in a physics or astronomy course toward the major requirements for this degree.

### **GENERAL INFORMATION**

- This degree progression plan is to be used in conjunction with the academic catalog and degree progress report.
- Students should see an academic advisor regularly to confirm their academic progress.
- Students must see an academic advisor before enrollment for the 7<sup>th</sup> term in preparation for graduation.
- · Many courses have pre-requisites. Please check the academic catalog for pre-requisite and placement information.
- Submit graduation application during 7<sup>th</sup> term.
- Honors students complete different requirements to meet NAU's liberal studies program. Students should consult an Honors Program advisor for complete information on fulfilling Honors Liberal Studies requirements.
- All students are required to complete at least 120 total units which includes:
  - 35 units of liberal studies courses: http://www4.nau.edu/aio/Articulation/LScourselist.htm
  - 6 units of diversity courses (3 units in Global & 3 units in Ethnic). The diversity requirement may be fulfilled in any part of the program of study:
    - http://www4.nau.edu/aio/Articulation/DiversityCourseList.htm
  - 30 units of upper division courses (300-400 level), 18 of these units must be taken at NAU
- English placement: <a href="http://www.nau.edu/comp/placement.html">http://www.nau.edu/comp/placement.html</a>
- Math placement: <a href="http://www.cefns.nau.edu/Academic/Math/studentInformation/Placement/Placement.shtml">http://www.cefns.nau.edu/Academic/Math/studentInformation/Placement/Placement.shtml</a>

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