

# Bachelor of Science in Education in Physics: Secondary Education (I-STEP)

2008-2009 Undergraduate Catalog

# **Degree Progression Plan**

Freshman Year						
1 <sup>st</sup> term			2 <sup>nd</sup> term			
PHY 161	University Physics I	3	PHY 262	University Physics II	3	
PHY 161L	University Physics I Lab	1	PHY 262L	University Physics II Lab	1	
MAT 136	Calculus I (SCI: SAS)	4	MAT 137	Calculus II (FNRQ)	4	
ENG 105	Critical Reading and Writing (FNRQ)	4	AST 180 or AST 183	Introduction to Astronomy or Life in the Universe (SCI:LAB)	3	
DIV	Diversity	3	AST 181 or AST 184L	Astronomy Lab (SCI: LAB)	1	
PHY 103	First Year Seminar	1	LS	Liberal Studies	3	
Total units 16 Total units 1					15	

Sophomore Year							
3 <sup>rd</sup> term			4 <sup>th</sup> term				
PHY 263	University Physics III	3	PHY 264	Electronics for Science Students	3		
BIO 100	Principles of Biology (SCI:SAS)	3	EPS 325	Ed-Psychology in Middle & High School	3		
ME	Major Elective **	3-5	ME	Major Elective **	3-4		
EDF 200	Introduction to Education	3	LS/DIV	Liberal Studies/Diversity ***	3		
GE	General Elective	1	LS	Liberal Studies	3		
	Total units 13-15 Total units 15-16						

Junior Year						
5 <sup>th</sup> term			6 <sup>th</sup> term			
ME	Major Elective **	1-3	PHY 361	Modern Physics	3	
POS 220	Federal & AZ Constitution *	3	PHY 333W	Advanced Lab	3	
LS	Liberal Studies	3	ME	Major Elective **	4-5	
LS	Liberal Studies	3	SCI 308	Teaching Practicum	1	
LS	Liberal Studies	3	SCI 461	Secondary Science Techniques	3	
GE	General Elective	3	GE	General Elective	1	
Apply to teacher education program						
Total units		16-18		Total units	15-16	

Senior Year							
7 <sup>th</sup> term			8 <sup>th</sup> term				
ECI 322	Secondary School Curriculum	3		ECI 495C	Supervised Teaching	12	
BME 437	SEI Methods in Secondary Schools	3					
ECI 465	Evaluation of Learning	3					
ECI 450	High School Teaching Methods	3					
SCI 460C	Secondary Science Methods	3					
Total units					Total units	12	

# 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
			AST 180 or 184 &	BIO 100 (3)
			AST 181 or 184L (4)	·

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#### PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

I-STEP is a one-term integrated secondary teacher education plan completed during term 7

\* POS 220 or (POS 110 & 241) are not required courses, but will satisfy the Arizona certification requirement for federal and Arizona constitution. You may meet this requirement by demonstrating proficiency on a special exam.

- \*\* Major electives include selecting either the chemistry emphasis or math emphasis
  - Chemistry: term 3 CHM 151, 151L, term 4 CHM 152, 152L, term 5 CHM 295, and term 6 CHM 230, 230L (14 units)
  - Mathematics: MAT 226 or STA 270, MAT 301, MAT 401 or 402, MAT 365 or 320W (12 units) plus two units of general electives.

To be accepted into the teacher education program for following criteria must be satisfied:

- Completed 45 units of coursework which includes:
  - o ENG 101 & 102 or ENG 105 with a minimum cumulative English GPA of 3.0
  - o If after completing the English above, you fall below a 3.0, you have two options
    - Repeat ENG 101, 102 or 105 to raise your GPA to 3.0. However if you earned a C in ENG 105, you must utilize the second option
    - Complete one or more of the following courses to replace the grade in ENG 101, 102 or 105 and raise the cumulative GPA to 3.0 – ENG 210, ENG 211, ENG 220, ENG 270, ENG 302 or ENG 310
  - o MAT 125, MAT136 or acceptable equivalent with a minimum grade of C.
  - o Completion of at least three units of content major work.
  - o A minimum grade point average of 2.5 in all content major course work.
  - o Declared a major.
- Completed EDF 200 or equivalent with a minimum grade of C
- Copy of fingerprint clearance card OR verification of application for fingerprint card
- Verification of application to NAU
- Completion of one of the following: cumulative 2.5 GPA in liberal studies courses or cumulative 2.5 GPA in all courses
- · Recommendation form
- Evidence of completion of a teacher education orientation

You must have a grade point average of at least 2.5 in all of your NAU coursework in order to graduate.

## **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: <a href="http://www4.nau.edu/aio/Articulation/LScourselist.htm">http://www4.nau.edu/aio/Articulation/LScourselist.htm</a>
  - 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: <a href="http://www4.nau.edu/aio/Articulation/DiversityCourseList.htm">http://www4.nau.edu/aio/Articulation/DiversityCourseList.htm</a>
  - 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.math.nau.edu/placement.html">http://www.math.nau.edu/placement.html</a>

### **CONTACT INFORMATION**

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<sup>\*\*\*</sup> Take a Liberal Studies course that also satisfies a diversity requirement.