

**NORTHERN ARIZONA UNIVERSITY**  
**BACHELOR OF SCIENCE IN PHYSICS & MATHEMATICS (Merged Major)**  
**DEGREE PLAN 2007-2008**

**Note:** Either the current or a later version of the degree plan can be used by the student.

Name \_\_\_\_\_

Student ID. \_\_\_\_\_

Advisor's Signature \_\_\_\_\_

Date \_\_\_\_\_

Chair's Signature \_\_\_\_\_

Date \_\_\_\_\_

**Part One: Liberal Studies Requirements**

(Note: Refer to the on-line catalog to find a detailed listing of all courses approved for liberal studies credit.)

**Dept.   No.   Title                      Units   Sem/Yr**

**I. FOUNDATION REQUIREMENTS**

English  
 ENG   105   Critical Reading & Writing    \_\_\_\_\_

**II. DISTRIBUTION REQUIREMENTS**

Aesthetic and Humanistic Inquiry (3-6 hours)  
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Cultural Understanding (3-6 hours)  
 \_\_\_\_\_

Lab Science (4 hours)  
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**Dept   No.   Title                                      Units   Sem/Yr**

**III. DISTRIBUTION REQUIREMENTS (cont'd)**

Science and Applied Science (3-6 hours)  
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Social and Political Worlds (3-6 hours)  
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**III. LIBERAL STUDIES ELECTIVE**

Elective from any of the Liberal Studies Requirements (3 hours)  
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**Degree Checklist:**

Liberal Studies Foundation (4 hours)                      \_\_\_\_\_

Liberal Studies Distribution Requirements (25 hours)                      \_\_\_\_\_

Liberal Studies Elective (3 hours)                      \_\_\_\_\_

Major Requirements                      \_\_\_\_\_

Diversity Requirements                      \_\_\_\_\_

Additional hours to total 120 units                      \_\_\_\_\_

*(At least 30 hours of your 120 hours must be Upper Division Hours)*

Advisor's    Signature    \_\_\_\_\_

## Part Two: Major Requirements

<u>Dept</u>	<u>Course #</u>	<u>Title</u>	<u>Units</u>	<u>Term*</u>	<u>Sem. Taken</u>
I. Mathematics Requirements					
MAT	136	Calculus I	4	All Year	_____
MAT	137	Calculus II	4	All Year	_____
MAT	238	Calculus III	4	All Year	_____
MAT	316	Intro. Linear Algebra	3	_____	_____
MAT	320W	Foundations of Math	3	_____	_____
MAT	411C	Intro. Abstract Algebra	3	_____	_____
MAT	431C	Intro. To Analysis	3	_____	_____
STA	473C	Intro to Mathematics Statistics I	3	_____	_____

In addition, one of these courses must be taken: MAT 412C, 441C or STA 474C

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### II. Physics Requirements

PHY	161	Univ. Phy. I	3	Fall & Spring	_____
PHY	161L	Univ. Phy. I Lab	1	Fall & Spring	_____
PHY	262	Univ. Phy. II	3	Fall & Spring	_____
PHY	262L	Univ. Phy. II Lab	1	Fall & Spring	_____
PHY	263	Univ. Phy. II	3	Fall & Spring	_____
PHY	264	Electronics	3	Spring	_____
PHY	265	Intr. Computational Phy.	3	Spring	_____
PHY	301	Meth. of Analy. I	3	Fall	_____
PHY	321	Mechanics I	3	Fall	_____
PHY	331	E & M I	3	Fall	_____
PHY	332	E & M II	3	Spring	_____
PHY	361	Modern Phy.	3	Spring	_____
PHY	441	Thermal & Statistical Physics	3	Fall	_____
PHY	471	Quantum Mechanics	3	Fall	_____
PHY	498C**	Senior Seminar	3	Fall	_____
PHY	333W***	Adv. Lab	3	Spring	_____

**PLUS:** 9 hours of additional courses must be completed, including MAT 226 and upper division courses in physics, astronomy, mathematics and statistics (except MAT 301, 401 and 402) with at least one course from mathematics and statistics.

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\* Subject to change without notice. Check with your advisor often for any updates.

\*\*This course satisfies the Senior Capstone Requirement. A substitution of 2 credit hours of undergraduate research (PHY 485) may be substituted for 2 hours of Senior Seminar.

\*\*\*This course satisfies the Junior-Level Writing Requirement.

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

**Part Three: Diversity Requirements**

NOTE: These courses may be used to meet other requirements within liberal studies if you choose them carefully. Please refer to the on-line catalog for the complete list of diversity courses.

**Dept.    Course#                      Title                                      Units    Sem/Yr**

Ethnic Diversity *(at least 3 hours)*

\_\_\_\_\_

Global Diversity *(at least 3 hours)*

\_\_\_\_\_

**Part Four: Additional Courses to total 120 hours**

*120 hours are required for the degree. Any remaining credits may be taken in any area. Consult with your advisor for recommendations on courses that will best prepare you for your future plans*

**Dept.    Course#                      Title                                      Units    Sem/Yr**

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