



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

Name _____

Soc.Sec.No. _____

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

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I. FOUNDATION REQUIREMENTS

III. DISTRIBUTION REQUIREMENTS (cont'd)

English
 ENG 105 Critical Reading
 and Writing 4 _____

Science and Applied Science (3-6 hours)

Mathematics (at least 3 hours)
 MAT _____

Social and Political Worlds (3-6 hours)

Note: Any NAU MAT or STA course satisfies this requirement (except MAT 101X, 102X, 108, or 150).

II. DISTRIBUTION REQUIREMENTS

III. LIBERAL STUDIES ELECTIVE

Aesthetic and Humanistic Inquiry (3-6 hours)

Elective from any of the Liberal Studies Requirements (3 hours)

Cultural Understanding (3-6 hours)

Lab Science (4 hours)

Degree Checklist:	
Liberal Studies Foundation (7 hours)	_____
Liberal Studies Distribution Requirements (25 hours)	_____
Liberal Studies Elective (3 hours)	_____
Major Requirements	_____
Diversity Requirements	_____
Additional hours to total 120 units	
<i>(At least 30 hours of your 120 hours must be Upper Division Hours)</i>	
Advisor's Signature	_____

Part Two: Major Requirements

<u>Dept</u>	<u>Course #</u>	<u>Title</u>	<u>Units</u>	<u>Term*</u>	<u>Sem/Yr</u>
I. <u>Preprofessional Requirements</u>					
CHM	151	General Chem. I	4		
CHM	151L	General Chem I Lab	1		
CHM	152	General Chem II	3		
MAT	136	Calculus I	4	All Year	_____
MAT	137	Calculus II	4	All Year	_____
MAT	238	Calculus III	4	All Year	_____
MAT	239	Diff. Eq.	3	All Year	_____

II. Professional Requirements

The 27 units of requirements for the major are divided into a physics core and an engineering core.

For the physics core you must complete the following 24 hours:

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. III	3	Fall & Spring	_____
PHY	265	Intr. Computational Phy.	3	Spring	_____
PHY	361	Modern Phy.	3	Spring	_____
PHY	333W**	Adv. Lab	3	Spring	_____
PHY	476C***	Senior Project I	1	Fall	_____

and one of PHY 486C, EE 486C, CENE 486C, or ME 486C, to meet NAU's senior capstone requirement (4 units).

The engineering core consists of the following 13 hours:

EGR	186	Intro. Engr. Design	3		_____
EGR	286	Eng. Design/Process	3		_____
CENE	225	Engineering Analysis	3		_____
EE	188	Elec. Engineering I	3		_____
EE	188L	Elec. Engineering I Lab	1		_____

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

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

***This course satisfies the Senior Capstone Requirement.

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

III. Emphasis Requirements

You must complete 34 hours in one of the three emphases described in the following sections:

Semiconductor Emphasis

<u>Dept</u>	<u>Course #</u>	<u>Title</u>	<u>Units</u>	<u>Sem/Yr</u>
PHY	331	Elect. & Magnetism I	3	_____
PHY	332	Elect. & Magnetism II	3	_____
PHY	441	Thermal & Statistical Phy.	3	_____
PHY	471	Quantum Mechanics	3	_____
EE	280	Intro. To Electronics	4	_____
EE	370	Fund. of Semi. Theory & Fab.	4	_____

Choose 2 of the following 3 courses

PHY	481	Solid State Physics	3	_____
EE	471	Adv. Semicond. Prop. & Devices	3	_____
EE	472	Semicond. Process Des. & Control	3	_____

PLUS: 8 additional units of 300- or 400-level technical courses chosen from BIO, CENE, CHM, EE, GLG, MAT, ME, or PHY in consultation with your advisor

Mechanical Engineering Emphasis

<u>Dept</u>	<u>Course #</u>	<u>Title</u>	<u>Units</u>	<u>Sem/Yr</u>
PHY	321	Mechanics I	3	_____
PHY	331	Elec. & Magnetism I	3	_____
ME	252	Applied Mechanics Dynamics	3	_____
ME	291	Thermodynamics I	3	_____
ME	340	Materials Science	3	_____
ME	386	Machine Design	3	_____
ME	395	Fluid Mechanics	3	_____
CENE	251	Applied Mechanics Statics	3	_____
CENE	253	Mech. of Materials	4	_____
CENE	253L	Mech. of Materials Lab	1	_____

PLUS: 6 additional units of 300- or 400-level technical courses chosen from BIO, CENE, CHM, EE, GLG, MAT, ME, or PHY in consultation with your advisor

Environmental Engineering Emphasis

<u>Dept</u>	<u>Course #</u>	<u>Title</u>	<u>Units</u>	<u>Sem/Yr</u>
PHY	451	Nuclear Physics	3	_____
ME	252	Applied Mechanics Dynamics	3	_____
CENE	150	Intro Environ. EGR	3	_____
CENE	251	Applied Mechanics Statics	3	_____
CENE	253	Mech. of Materials	4	_____
CENE	253L	Mech. of Materials Lab	1	_____
CENE	280	Environmental EGR II	3	_____
CENE	281L	Env. Engineering Lab	1	_____
Two of CENE 330, 331, 332, or 333			3	_____

PLUS: 8 additional units of 300- or 400-level technical courses chosen from BIO, CENE, CHM, EE, GLG, MAT, ME, or PHY in consultation with your advisor

Extremely important! Please be aware that the total hours for your degree will be **LESS** than 129 if you count some courses under both major requirements and liberal studies. Consult your advisor about this.

