

Name: \_\_\_\_\_ ID: \_\_\_\_\_ Date: \_\_\_\_\_

**General Education Requirements:**

Circle appropriate credit for courses taken Sem/Yr Grade

**Group I- English Composition and Literature (2 courses)**

- A. ENGL 103 ("C" or better) or HONR 111 \_\_\_\_\_ 3-4  
 B. Literature (either ENGL or MDFL) \_\_\_\_\_ 3-4

**Group II- History (2 courses)**

- A. HIST 101, 102, or 103 \_\_\_\_\_ 3-4  
 B. HIST 101, 102, 103, or a HIST course above 103 \_\_\_\_\_ 3-4

**Group III-Humanities & Social Sciences (3 courses)**

- A. Select one course from one of the following six areas:  
 ART, CMAT, DANC or THEA, MDFL, MUSC, PHIL, or HONR 211  
 \_\_\_\_\_ 3-4
- B. Select one course from one of the following seven areas:  
 ANTH, CADR, ECON, Human GEOG, POSC, PSYC, SOCI, or HONR 112  
 \_\_\_\_\_ 3-4
- C. Select one course from either Group IIIA or III B (course must be from a different area than previously selected)  
 \_\_\_\_\_ 3-4

**Group IV- Natural Science, Math, and Computer Science (4 courses)**

- A. Select courses with laboratories from at least two of the following four areas (at least six credit hours total): BIOL, CHEM, GEOL or Physical GEOG, PHYS  
 Satisfied by major \_\_\_\_\_ X  
 Satisfied by major \_\_\_\_\_ X
- B. Select one additional course (need not be a lab) from Group IVA or ENVH or COSC or MATH or HONR  
 Satisfied by major \_\_\_\_\_ X
- C. Select one course from MATH  
 Satisfied by major \_\_\_\_\_ X

**Group V-Health Fitness (1 course)**

- PHEC 106 \_\_\_\_\_ 3

**University Policies**

1. Refer to the SU catalog for approved general education courses.
2. Requirements may not equal 120 credit hours. Students must register for additional electives to complete 120 credits required for graduation.
3. All graduates must have a minimum of 30 credits of 300/400 level courses with "C" grade or above; at least 15 of those credits must be taken at SU.
4. Students must have a minimum cumulative GPA of 2.0 for graduation.
5. Students must complete at least 30 credit hours by direct classroom instruction and/or laboratory experience.
6. Students must take 30 of the last 37 credit hours at SU.
7. Students should consult the degree progress report in GullNet for information on their academic progress.
8. It is the student's responsibility to satisfy graduation requirements. Please refer to the SU catalog for detailed major requirements.
9. Students must apply online by Nov. 15 for May graduation and May 15 for December graduation.

**Major Requirements:**

Sem/Yr Grade

CHEMISTRY – 8 hours

- CHEM 121 General Chemistry I \_\_\_\_\_ 4  
 CHEM 122 General Chemistry II \_\_\_\_\_ 4

MATHEMATICS – 16 hours

- MATH 201 Calculus I \_\_\_\_\_ 4  
 MATH 202 Calculus II \_\_\_\_\_ 4  
 MATH 310 Calculus III \_\_\_\_\_ 4  
 MATH 311 Differential Equations \_\_\_\_\_ 4

PHYSICS CORE – 27 hours

- PHYS 221 Physics I \_\_\_\_\_ 4  
 PHYS 223 Physics II \_\_\_\_\_ 4  
 PHYS 225 Physics III \_\_\_\_\_ 3  
 PHYS 309 Mathematical Physics \_\_\_\_\_ 3  
 PHYS 311 Circuits & Electronics \_\_\_\_\_ 4  
 PHYS 313 Modern Physics \_\_\_\_\_ 3  
 PHYS 314 Mechanics \_\_\_\_\_ 3  
 PHYS 315 Electricity & Magnetism \_\_\_\_\_ 3

MICROELECTRONICS TRACK – 19 hours

- PHYS 316 Quantum Mechanics \_\_\_\_\_ 3  
 PHYS 318 Semiconductor Physics \_\_\_\_\_ 3  
 PHYS 321 Analog Electronics \_\_\_\_\_ 3  
 PHYS 322 Digital Electronics \_\_\_\_\_ 4  
 PHYS 413 Computer Architecture & Interfacing \_\_\_\_\_ 3  
 PHYS 470 Senior Seminar \_\_\_\_\_ 1  
 PHYS 475 Capstone Design Project \_\_\_\_\_ 2

ELECTIVES (TO BRING TOTAL CREDITS TO 120) Sem/Yr Credit Grade

<u>ELECTIVES (TO BRING TOTAL CREDITS TO 120)</u>	Sem	Yr	Credit	Grade
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
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_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**Departmental Policies**

1. Students should meet with their academic advisor for detailed advice.
2. All required physics courses must be completed with a minimum overall GPA of 2.0.

**Physics Microelectronics Track**  
Suggested Curriculum Guide

**First Year**

Fall	PHYS 221 (4) MATH 201 (4) HIST 101 or 102(4)	Spring	PHYS 223 (4) MATH 202 (4) ENGL 103 (4)
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**Second Year**

Fall	PHYS 225 (3) CHEM 121 (4) MATH 310 (4) HIST XXX (4)	Spring	PHYS 309 (4) CHEM 122 (4) MATH 311 (4) ENGL Lit (Gen Ed IB) (4)
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**Third Year**

Fall	PHYS 311 (4) PHYS 313 (3) PHYS 322 (3) Gen Ed IIIA, B, or C (3-4) Electives (3-4)	Spring	PHYS 314 (3) PHYS 315 (3) *PHYS 318 (3) or PHEC 106 (3) PHYS 321 (3) Electives (3-4)
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**Fourth Year**

Fall	PHYS 316 (3) PHYS 413 (3) PHYS 470 (1) Gen Ed IIIA, B, or C (3-4) Electives (6-7)	Spring	PHYS 475 (2) PHEC 106 (3) or *PHYS 318 (3) Gen Ed III A, B, or C (3-4) Electives (7)
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\* Offered every other year