

Department of Physical Science nsula.edu/physical-science



Electives Credit

Electives Credi

Electives Credit

Concentration

Science

Academic

START HERE

Electives Credit

Electives Credits

Concentration

Electives Cred

Electives Credits Concentration Science Academic

Science

Academic

Concentration

	SEMESTER 1	Milestones	Grade	Credits	Minimum Grade	Elective
_	CHEM 1030 — General Chemistry 1	<i>\$3</i>		3	C	Concentrat
04	CHEM 1031 — General Chemistry Laboratory 1	42		1	(Science Academic
⋖	, ,	<i>5</i> 0 ₹				Academic
巴	MATH 1100 — Precalculus Mathematics			6		
>	ENGL 1010 — Composition & Rhetoric 1			3		
	UNIV 1000 — The University Experience			1		

Semester	Credits	

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade	Electives	C
PHYS 2510 — General Analytical Physics 1	₩.		3	C	Concentration	
PHYS 2511 — General Analytical Physics Laboratory 1	<i>₽</i>		1	C	Science Academic	H
MATH 2100 – Analytical Geometry & Calculus 1	2		5		Academic	L
, ,	<i>7</i> /)			
BIOL 1010 — Biology Principles 1			3	C		
BIOL 1011 — Biology Principles Laboratory 1			1	C		
FNGL 1020 – Composition & Rhetoric 2			3			

Semester Credits ____ Total Credits

	SEMESTER 1	Milestones	Grade	Credits	Minimum Grade
7	PHYS 2520 — General Analytical Physics 2			3	C
~	PHYS 2521 — General Analytical Physics Laboratory 2	F		1	С
YEA	PHYS 3400 — Minicomputer Interfacing with Scientific Instrumentation	s?		3	С
	PHYS 3510 — Numerical Simulations in Physics	<i>\$7</i>		3	C
	MATH 2110 — Analytical Geometry & Calculus 2	**		5	

Semester Credits ____

Total Credits ____

SEMESTER 2	Milestones	Grade	Credits	Minimum	Electives
JEMESTER E		didde	credits	Grade	
PHYS 4510 — Mechanics			4	C	Concentration
CUEM 1040 Compred Champinton 2			,		Science
CHEM 1040 — General Chemistry 2	₩.		3	Ĺ	Academic
CHEM 1041 — General Chemistry Laboratory 2	₩,		1	С	
MATH 3130 — Analytical Geometry & Calculus 3	F		3	C	
ENGL 2110 — Introduction to Literature			3		
COMM 1010 or COMM 2500			3		

Semester Credits ____ Total Credits ____

	SEMESTER 1	Milestones	Grade	Credits	Minimum Grade	Electives
	PHYS 3010 — Electromagnetism & Nonlinear Optics	<i>\$6</i>		3	C	Concentration
m	DUVC 2011 Flactromagneticm (Manlineau					Science
	PHYS 3011 — Electromagnetism & Nonlinear Optics Laboratory	₩.		1	C	Academic
AR	PHYS 4100 – Modern Physics			3	C	
YE	MATH 3160 — Ordinary Differential Equations	Ø		3	C	
	BIOL 1020 — Biology Principles 2			3	C	
	BIOL 1021 — Biology Principles Laboratory 2			1		

ts S	SEMESTER 2	Milestones	Grade	Credits	Minimum Grade
_ [PHYS 3291 — Computational Condensed Matter			3	C
_ [PHYS 3710 — Thermodynamics & Statistical Mechanics			3	C
(CHEM 3210 — Chemical Thermodynamics			3	
	Electives – See the list below			3	
	HIST 1010, HIST 1020, HIST 2010, or HIST 2020 —			3	

Semester Credits ____

Total Credits ____

Semester Credits	
Total Credits	

(\checkmark)	- Apply to graduate school(s).
Kuy	- Verify requirements for schools of your choice.

- Apply to graduate school(s).
- Verify requirements for schools of your choice.

	SEMESTER 1	Milestones	Grade	Credits	Minimum Grade
4	PHYS 4520 — Quantum Mechanics in Physics	A		3	С
2	PHYS 4930 — Capstone Course in Physics	A		3	C
4	Electives — See the list below			3	
⋝	GEOG 1010, ANTH 1510, ECON 2000, PSCI 2010, or PHIL 1010 —			3	
	PSYC 1010, PSYC 2050, SOC 1010, or EPSY 2020 —			3	

Semester Credits ____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade	Electives	Cre
PHYS 4940 – Scientific Communication	1		3	(Concentration	3.
Titis is its section communication	7/-				Science	9
CHEM 3220 — Chemical Kinetic & Quantum Mechanics			3	C	Academic	1
FA 1040 —Exploring The Arts			3			
Electives — See the list below			5			

Semester Credits ____

Total Credits _____120

Total Credits ____

Should be taken in order to stay on track for graduation and professional school readiness.



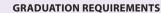
YOU'VE FINISHED!

Physics Course

Physical Science Course

Milestone

This is for physics concentration, for other concentration or majors, consult with your advisor for any suggested changes.



Semester = 120, Physical Sciences = 30, Physics Concentration = 35, Science Electives = 9, Academic Electives = 11





List of Electives	Number of credits
PHYS 3900 – Special Topics in Physics	1
CHEM 2110 - Quantitative Analysis	3
CHEM 2111 - Quantitative Analysis Laboratory	1
CHEM 2120 - Introduction to Instrumental Analysis	3
CHEM 2121 - Introduction to Instrumental Analysis Laboratory	1
CHEM 2140 - Inorganic Chemistry	3
CHEM 2141 - Inorganic Chemistry Laboratory	1
CHEM 3210 – Chemical Thermodynamics	3
CHEM 3221 - Physical Chemistry Laboratory	2
MATH 1100 – Precalculus Mathematics	6
BIOL 3060 - Biostatistics	3

- Science electives: Students may select any course from Physics, Chemistry, Mathematics, or Biology.
- Academic Electives: Students are limited to a maximum of 6 hours of 1000-level courses.