

Department of Physical Science nsula.edu/physical-science



Electives Cred

Electives Credit

Concentration

Science

Academic

START HERE

Electives Credit Concentration

Electives Credit

Electives Credits

Electives Credits Concentration Science Academic

Concentration

Science

Academic

Science

Academic

	SEMESTER 1	Milestones	Grade	Credits	Minimum Grade
_	CHEM 1030 — General Chemistry 1			3	C
YEAR	CHEM 1031 — General Chemistry Laboratory 1	<i>\$7</i>		1	С
	MATH 1100 — Precalculus Mathematics			6	
	ENGL 1010 – Composition & Rhetoric 1			3	
	UNIV 1000 — The University Experience			1	

Semester	Credits	

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SEMESTER 2	Milestones	Grade	Credits	Minimum Grade	Electives	C
PHYS 2510 — General Analytical Physics 1	<i>₽</i>		3	C	Concentration	
	-3			_	Science	L
PHYS 2511 — General Analytical Physics Laboratory 1	₩.		1	(Academic	
MATH 2100 — Analytical Geometry & Calculus 1	F		5			
BIOL 1010 — Biology Principles 1			3	C		
BIOL 1011 — Biology Principles Laboratory 1			1	C		
ENGL 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	A		1	С
Œ	PHYS 3400 — Minicomputer Interfacing with Scientific Instrumentation	₩.		3	С
	PHYS 3510 — Numerical Simulations in Physics			3	C
	MATH 2110 — Analytical Geometry & Calculus 2	3		5	

Semester Credits ____

Total Credits ____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade
PHYS 4510 — Mechanics	<i>\$3</i>		4	C
CHEM 1040 — General Chemistry 2	₩.		3	C
CHEM 1041 — General Chemistry Laboratory 2	₩.		1	С
MATH 3130 — Analytical Geometry & Calculus 3	₩.		3	С
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	₩.		3	C	Concentration
m	DUVC 2011 Flastwares are ations 0 Marslin and	_				Science
00	PHYS 3011 — Electromagnetism & Nonlinear Optics Laboratory	₩.		1	C	Academic
Ā	PHYS 4100 — Modern Physics			3	С	
۶	MATH 3160 — Ordinary Differential Equations	₩.		3	C	
	BIOL 1020 — Biology Principles 2			3	C	
	BIOL 1021 — Biology Principles Laboratory 2			1		

Semester Credits ____ Total Credits

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade	Electives
PHYS 3291 — Computational Condensed Matter	<i>\$</i>		3	C	Concentration
PHYS 3710 — Thermodynamics & Statistical Mechanics	S.		3	С	Science Academic
CHEM 3210 — Chemical Thermodynamics	A		3		
Electives — See the list below			3		
HIST 1010, HIST 1020, HIST 2010, or HIST 2020 —			3		

Semester Credits ____

Total Credits ____

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

	SEMESTER 1	Milestones	Grade	Credits	Minimum Grade
4	PHYS 4520 — Quantum Mechanics in Physics	₩.		3	C
8	PHYS 4930 — Capstone Course in Physics	₩.		3	C
¥	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 FPSY 2020 —			3	

Physical Science Course

Semester Credits Total Credits ____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade	Electives	Cre
PHYS 4940 – Scientific Communication	1		3	(Concentration	-
Titis 17 to Scientific communication	7/-		_	_	Science	
CHEM 3220 — Chemical Kinetic & Quantum Mechanics	<i>\$3</i>		3	C	Academic	
FA 1040 —Exploring The Arts			3			
Electives – See the list below			5			

Semester Credits ____

Total Credits _____120

majors, consult with your advisor for any suggested changes.

Milestone Should be taken in order to stay on track for graduation and professional school readiness. Physics Course This is for physics concentration, for other concentration or

YOU'VE FINISHED! **GRADUATION REQUIREMENTS**

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

Courses taken outside of a student's degree program are not eligible for Title IV federal financial aid (grants and loans). However, elective courses are eligible for Title IV aid if they are required and included in the student's program of study. Once a student has completed all required elective credits, any additional elective courses taken beyond the program's requirements will not be eligible for Title IV funding.





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.