

Full name: _____ Hamline ID: _____ Phone #: _____

Anticipated graduation date (such as: May, 2023) _____

DEPT	COURSE	TITLE	GRADE	CREDITS	TERM/ YEAR	SUBSTITUTE COURSE*	BREADTH OF STUDY**
Core Physics Courses:							
PHYS	1230	General Physics I		4			no
PHYS	1240	General Physics II		4			no
PHYS	3540	Modern Physics		4			no
PHYS	3600	Mathematical & Computational Methods		4			no
PHYS	3800	Electronics & Instrumentation		4			no
PHYS	5900	Junior Seminar		0.5			no
PHYS	5900	Junior Seminar		0.5			no
PHYS	5910	Senior Seminar		0.5			no
PHYS	5910	Senior Seminar		0.5			no
PHYS	5920	Research Project-Based Adv Lab		2			no
PHYS	5920	Research Project-Based Adv Lab		2			no
Core Mathematics Courses:							
MATH	1170	Calculus I		4			yes
MATH	1180	Calculus II		4			yes
MATH	3320	Multivariable & Vector Calculus		4			yes
MATH	3720	Differential Equations		4			yes
Computation Emphasis:							
CHEM	1130	General Chemistry I		4			yes
CHEM	1140	General Chemistry II		4			yes
<i>(or CHEM 1500 - Advanced General Chemistry)</i>							
CDS	1010	Introduction to Programming		4			yes
		Data Structures		4			yes
MATH	3330	Linear Algebra		4			yes
MATH	3410	Mathematical Modeling		4			yes
MATH	3810	Probability & Mathematical Statistics		4			yes
<i>Two of the following:</i>							
INTD	3900	Innovation		4			yes
PHYS	3520	Physical Optics		4			no
PHYS	3700	Condensed Matter Physics		4			no
PHYS	3750	Thermodynamics & Statistical Mechanics		4			no
<i>One of the following:</i>							
PHYS	5930	Theoretical Mechanics		4			no
PHYS	5940	Adv Electromagnetic Field Theory		4			no
PHYS	5950	Adv Quantum Mechanics		4			no
PHYS	5955	Advance Topics in Physics		4			no
Writing intensive course in the major:							

*Department approval is required for transfer courses or other substitutions. Courses used as substitutions must be initialed by Department Chair.

**In order to graduate, you must have at least 48 Breadth of Study credits (credits outside your major department). See above for courses in your major that also count toward Breadth of Study.

 Student signature: _____ Date: _____
(required)

 Physics advisor signature: _____ Date: _____
(required)

 Department chair/director signature: _____ Date: _____
(required for course substitutions and waivers)