

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

Anticipated graduation date (such as: May, 2022) _____

DEPT	COURSE	TITLE	GRADE	CREDITS	TERM/ YEAR	SUBSTITUTE COURSE*	BREADTH OF STUDY**
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

Four MATH 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

Four electives chosen from the following; at least one must be 5000-level:

PHYS	3520	Physical Optics		4			no
PHYS	3700	Condensed Matter Physics		4			no
PHYS	3750	Thermodynamics & Statistical Mechanics		4			no
PHYS	3800	Electronics & Instrumentation		4			no
PHYS	5930	Theoretical Mechanics		4			no
PHYS	5940	Advanced Electromagnetic Field Theory		4			no
PHYS	5950	Advanced Quantum Mechanics		4			no
PHYS	5955	Advanced Topics in Physics		4			no

Two semesters each of Junior Seminar, Senior Seminar, and Research Project-Based Adv Lab:

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

Writing intensive course in the major:

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NOTE: Students who complete BOTH Physical Chemistry I and II (CHEM 3550 and CHEM 3560) may count them toward the physics major in place of PHYS 3540 and PHYS 3750.

*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)