

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

Anticipated graduation date (such as: May, 2016) _____

46 CREDITS FOR MAJOR

DEPT	COURSE	TITLE	GRADE	CREDITS	TERM/ YEAR	SUBSTITUTE COURSE*	BREADTH OF STUDY CREDITS**
1. PHYS	1230	General Physics I		4			no
2. PHYS	1240	General Physics II		4			no
3. PHYS	5920	Research Project-Based Adv Lab		2			no
4. PHYS	5920	Research Project-Based Adv Lab		2			no
5. MATH	1170	Calculus I		4			yes
6. MATH	1180	Calculus II		4			yes
7. MATH	3320	Multivariable & Vector Calculus		4			yes
8. MATH	3720	Intro to Applied Mathematics		4	2012-2013 only		yes
or PHYS	3600	Mathematical & Computational Methods		4			no
9. One of the following:							
CHEM	3560	Molecular Structure & Spectroscopy		4			yes
PHYS	3540	Modern Physics					no
10. - 12. Three electives chosen from the following; at least one must be 5000-level:							
CHEM	3550	Physical Chemistry I		4			yes
PHYS	3520	Physical Optics		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 of Junior Seminar and two semesters of Senior Seminar:							
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
Writing intensive course in the major:							

*Department approval is required for transfer courses or other substitutions. Approval must be initialed in the Department Approval column.

**In order to graduate, you must have at least 76 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)