

Full name:

Student signature:

Physics advisor signature:

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

(required)

(required)

PHYSICS - Major Requirements for BS Degree Effective Fall 2018

Phone #:

Date:

Date:

Date:

DEPT	COURSE	TITLE	GRADE	CREDITS	TERM/ YEAR	SUBSTITUTE COURSE*	BREADTH OI 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
PHYS	5930	Theoretical Mechanics		4			no
PHYS	5940	Advanced Electromagnetic Field Theory		4			no
PHYS	5950	Advanced Quantum Mechanics		4			no
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
hree advan	ced electi	ve chosen from the following; on	e must in	clude a la	b:		
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	5955	Advanced Topics in Physics		4			no
wo addition	al scienc	e electives chosen from the follow	wing:				·
BIOL	1510	Integrated Concepts in Biology I		4			yes
BIOL	1520	Integrated Concepts in Biology II		4			yes
BIOL	3050	Principles of Genetics		4			yes
BIOL	3060	Principles of Cell Biology		4			yes
CHEM	1130	General Chemistry I		4			yes
CHEM	1140	General Chemistry II		4			yes
wo semeste	ers each d	of Junior Seminar, Senior Semina	r, and Re	search Pro	oject-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
riting inten	sive cour	se in the major:		'			<u>.</u>
)epartment	t approva	l is required for transfer courses	or other:	substitutio	ns. Course	es used as substitutions must be initialed by D	epartment Chair.
In order to	graduate					outside your major department). See above fo	

Hamline ID: