

BS in Physics Mathematical Emphasis (770-165)

Core Courses <i>Take these courses during your first 3 semesters:</i>		Mathematical Emphasis Courses: <i>Choose 1 option:</i>		Program Notes: * <i>No Grade Less than C- in Major Courses</i> * <i>Choose Optin1 if your interest is in Statistical Mechanics and Thermodynamics; or if you have an interest in experimental physics and/or signal processing applications.</i> ** <i>Choose Optin2 if your interest is in Solid State Physics (including semiconductor device physics), or Particle Physics, or Quantum Field Theory.</i> *** <i>Choose Option 3 if you are interested in a more rigorous mathematical background, and understanding the details of the mathematics often used in physics.</i> * <i>Some of the upper division math courses are offered on a rotating schedule, so please plan accordingly</i>
MATH 215	4	Take these courses: PH 412 3 PH 433 3 PH 473 $\frac{3}{9}$	Option 1* <i>Take these courses:</i> MATH 221A, B, or C 3 MATH 325 3 MATH 341 3	
PH 121 3 PH 123 3 PH 150 1 PH 220 $\frac{3}{14}$		Take 1 course: PH 323 3 PH 324 3 PH 374 3 PH 375 $\frac{3}{3}$	Option 3*** <i>Take these courses:</i> MATH 301 3 MATH 461 3 <i>Take 2 courses:</i> MATH 462 3 MATH 463 3 MATH 472 $\frac{3}{12}$	
Take these courses: MATH 316 4 PH 250 1 PH 279 3 PH 291 2 PH 314 $\frac{3}{13}$		Internship/Research Courses Take 1 course: PH 398R 1 PH 406 $\frac{1}{1}$	Option 2** <i>Take these courses:</i> MATH 301 3 MATH 341 3 MATH 441 3 <i>Take 1 course:</i> MATH 442 3 MATH 463 $\frac{3}{12}$	
Take these courses: PH 328 2 PH 332 4 PH 333 4 PH 336 2 PH 385 $\frac{2}{14}$		Take this course: PH 488 $\frac{1}{1}$		
Credit Requirements:		Tracks Available:		
Foundations	40	Fall/Winter	Yes	
Major	67	Winter/Spring (Freshman/Sophomore)	Yes	
Elective	$\frac{13}{120}$	Winter/Spring (Junior/Senior)	No	
Total		Spring/Fall (Freshman/Sophomore)	Yes	
		Spring/Fall (Junior/Senior)	No	

Graduation Plan BS in Physics - Mathematical Emphasis (770-165)

Semester 1 <i>Take these courses:</i> PH 150 1 PH 121 3 FDSCI 101 2 FDMAT 112 4 FDREL 121 or 122 2 FDENG 101 $\frac{3}{15}$	Semester 2 <i>Take these courses:</i> MATH 215 4 PH 123 3 Elective Credit 3 FDREL 121 or 122 2 FDAMF 101 $\frac{3}{15}$	Semester 3 <i>Take these courses:</i> MATH 316 4 PH 220 3 PH 250 1 MATH Course 3 Elective Credit 3 FDREL 200 $\frac{2}{16}$	Semester 4 <i>Take these courses:</i> PH 291 2 PH 279 3 MATH Course 3 FDSCI Issues 3 FDREL Elective 2 FDENG 201 $\frac{3}{16}$	Semester 5 <i>Take these courses:</i> PH 333 4 PH 328 2 PH 332 4 FDCA/FDWLD 3 FDREL Scripture $\frac{2}{15}$
Semester 6 <i>Take these courses:</i> PH 385 2 PH 336 2 PH 314 3 FDCA/FDWLD 3 Elective Credit $\frac{4}{14}$	Off-Track ***Choose 1: PH 398R or 1 PH 405 fall semester $\frac{1}{1}$	Semester 7 <i>Take these courses:</i> PH 433 3 PH 412 3 PH Elective 3 MATH Course 3 FDREL Scripture $\frac{2}{14}$	Semester 8 <i>Take these courses:</i> PH 473 3 PH 488 1 MATH Course 3 Elective Credit 3 FDSCI Issues 3 FDREL Elective $\frac{2}{15}$	Program Notes * <i>Take care to plan out which math courses you choose for the emphasis area as many are only offered once a year or every other year.</i>