Physics Major – sample curriculum

Year I	Fall Semester		Spring Semester	
	GSW 1110	(3)	GSW 1120	(3)
	*MATH 1310	(5)	*MATH 2320	(5)
	Calculus I		Calculus II	
	*PHYS 2110	(5)	*PHYS 2120	(5)
	University Physics I	(4)	University Physics I	
	Language	<u>(4)</u> 17	Language	(<u>4)</u> 17
Year II		17		Ι/
icai II	*MATH 2350	(4)	†MATH 3320	(3)
	Calculus III & Vecto	` '	Linear Algebra	(3)
	*PHYS 3010	(3)	*PHYS 3020	(3)
	Modern Physics		Thermal Physics & (
	*PHYS 3110	(1)	*PHYS 3120	(1)
	Modern Physics Lab Language	(3)	Thermal/Optics Lab Language	(3)
	†CHEM 1250	(5) (5)	†CHEM 1270	(4)
	CHEN 1250	16	†CHEM 1280	$\frac{(1)}{(1)}$
		10	TCHEN 1200	$\frac{(\pm)}{15}$
Year III				
	*PHYS 4010	(3)	*PHYS 4700 (1-3)
	Math. & Comp. Phys	` '	Independent Resea	•
	*PHYS 4160	(3)	*PHYS 4100	(3)
	Classical Mechanics	(2)	Solid State Physics	(6)
	†MATH 3370 Differential Equation	<u>(3)</u>	Group X 2	(6)
	*PHYS 4700 (Electives	(6)
	Independent Resear	•		(-)
	Group X 2	<u>(6)</u>		
	16	5-18	16	5-18
Year IV				
	*PHYS 4180	(3)	*PHYS 4170	(3)
	Elect. & Magnetism		Quantum Mechanics	
	Group X 2 Electives	(6)	Group X 2 Electives	(6)
	LIECTIVES	<u>(6)</u> 15	LIECTIVES	<u>(6)</u> 15
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NOTES:

- 1. If a student places below MATH 1310 (Calculus and Analytic Geometry I), the PHYS 2110/2120 (University Physics) sequence should be deferred until the second year and replaced by the CHEM sequence.
- 2. Courses required for the Physics Major are indicated with an asterisk (*), for a total of 35 credit hours in Physics and 14 credit hours in Mathematics. Courses that are strongly recommended are indicated with a dagger (†).
- "Group" refers to both the Social Sciences and the 3. Arts/Humanities requirements of the College of Arts and Sciences (4 courses in each group). If appropriately selected, these courses may also satisfy part of the University General Education requirements, including the Cultural Diversity and International Perspective requirements.
- 4. A minor is also required, with the choice of subject area up to the student. Electives should be used to fulfill requirements for a minor or to explore other areas of interest.
- Electives in PHYS include:

PHYS 3210 (Recent Progress in Astronomy) PHYS 4030 (Stellar Structure and Evolution)

PHYS 4330 (Philosophy and Physics of Space and Time)

Suggested technical electives include:

CS 1010, 2010, 2020 CHEM 2010, 3520

MATH 4340, 4410, 4610

Please consult with the Physics Advisor regarding scheduling these courses.