SIENAcollege
Physics and Astronomy

Physics BS[1] (Three/Two Engineering) 5-Year Schedule

Fall Year 1		Spring Year 1	
PHYS 130: General Physics I[2]	4	*PHYS 140: General Physics II*	4
PHYS 132: General Physics Review	0	PHYS 142: General Physics Review	0
MATH 110: Calculus I[3]	4	*MATH 120: Calculus II*	4
FYSN 100: First-Year Seminar	3	FYSN 101: First-Year Seminar	3
SCDV 020: Intro to Engineering	1	Creative Arts Core (CDE)	3
CSIS 200: Software Tools for Physicists	3		

Fall Year 2		Spring Year 2	
PHYS 220: Modern Physics[4]	4	PHYS 260: Thermal Physics	3
SCDV 230: Electronic Instrumentation	4	*PHYS 250: Computational Physics*	3
MATH 210: Calculus III	4	MATH 325: Differential Equations	3
English Core (CDA)	3	Religion Core (CDR)	3
		Franciscan Diversity Core (CFD)	3

Fall Year 3		Spring Year 3	
PHYS 470: Advanced Lab I	1	*PHYS 472: Advanced Lab II*	1
PHYS 310: Mechanics I	4	*PHYS 410: Electromagnetic Theory*	4
CHEM 110: General Chemistry I	4	*PHYS 370: Experimental Techniques*[5]	2
MATH 330: Intro to Applied Math I	3	MATH 230: Linear Algebra[6]	3
History Core (CDH)	3	Philosophy Core (CDP)	3
		Social Justice Franciscan Core (CFJ)	3

Fall Year 4		Spring Year 4	
PHYS 440: Quantum Physics	3	Social Science Core (CDS)	3
Heritage Franciscan Core (CFH)	3	Courses at Engineering School	
Courses at Engineering School			

[1]A minimum of 120 credit-hours is required to graduate (average 15 credit-hours per semester). Courses in italics have a lab component (generally indicating a larger time commitment).
[2]General Physics satisfies the Natural Science Core (CDN) requirement.
[3]Calculus satisfies the Quantitative Core (CDQ) requirement.
[4]Modern Physics satisfies the Natural World Franciscan Core (CFN) requirement.
[5]This requirement can be satisfied by taking *ASTR 380: Observational Astronomy* (a 3-credit course offered in the fall), or by completing the Astrophysics Minor.
[6]This sixth math class gives you a Mathematics Minor (which must be declared).