

## Physics BS<sup>1</sup> (Education Track) 4-Year Schedule

### Fall Year 1

<i>PHYS 130: General Physics I</i> <sup>3</sup>	4
PHYS 132: General Physics Review	0
<i>MATH 110: Calculus I</i> <sup>4</sup>	4
FYSN 100: First-Year Seminar	3
CSIS 200: Software Tools for Physicists	3

### Spring Year 1<sup>2</sup>

<i>PHYS 140: General Physics II</i>	4
PHYS 142: General Physics Review	0
<i>MATH 120: Calculus II</i>	4
FYSN 101: First-Year Seminar	3
Creative Arts Core (CDE)	3
EDUC 210: Issues in Contemp Ed(CDS)	3

### Fall Year 2

<i>PHYS 220: Modern Physics</i> <sup>5</sup>	4
<i>SCDV 230: Electronic Instrumentation</i>	4
<i>MATH 210: Calculus III</i>	4
EDUC 260: Educational Psychology	3

### Spring Year 2

PHYS 260: Thermal Physics	3
<i>PHYS 250: Computational Physics</i>	3
MATH 325: Differential Equations	3
EDUC 261: Found of Lang and Lit (CFD)	3

### Fall Year 3

<i>PHYS 310: Mechanics I</i>	4
<i>PHYS 470: Advanced Lab 1</i>	1
<i>CHEM 110: General Chemistry I</i>	4
History Core (CDH)	3
EDUC 365: Exception and At Risk	3

### Spring Year 3

<i>PHYS 410: Electromagnetic Theory</i>	4
<i>PHYS 470: Advanced Lab 2</i>	1
<i>PHYS 370: Experimental Techniques</i> <sup>6</sup>	2
Physics Elective	3
Social Justice Franciscan Core (CFJ)	3
Philosophy Core (CDP)	3

### Fall Year 4

PHYS 440: Quantum Physics	3
Heritage Franciscan Core (CFH)	3
Religion Core (CDR)	3
English Core (CDA)	3
EDUC 481:Instr Theory+Prac Inclu(Sci)	3
EDUC 481:Instr Theory+Prac Inclu Class	1

### Spring Year 4

Student teaching and the following courses:	
EDUC 461: Literacy+Reflective Practnr	3
EDUC 462: Literacy+Reflective Practnr	1
EDUC 487: Clinical Exper in Middle Sch	5
EDUC 488: Clinical Exper in Middle Sch	5
EDUC 495: Drug Alcohol Tobacco Workshop	0
EDUC 496: Child Abuse and Schl Viol Wrks	0

### Summer<sup>7</sup>

Foreign Language(s)

<sup>1</sup>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).

<sup>2</sup>17 credit-hours are required for this semester.

<sup>3</sup>General Physics satisfies the Natural Science Core (CDN) requirement.

<sup>4</sup>Calculus satisfies the Quantitative Core (CDQ) requirement.

<sup>5</sup>Modern Physics satisfies the Natural World Franciscan Core (CFN) requirement.

<sup>6</sup>This requirement can be satisfied by taking *ASTR 380: Observational Astronomy* (a 3-credit course offered in the fall).

<sup>7</sup>The two disciplinary core courses in Year 3 can be moved to the summer and replaced with MATH 330 and MATH 230 to get a math minor and build courses for a second certification in math.