

Computational Science BS¹ - 4 Years

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
FYSM 100: First-Year Seminar	3	FYSM 101: First-Year Seminar	3
CSIS 110 (CS Intro) or CSIS 200 (tools for Phys.)	3	CSIS 120: Introduction to Programming	4
Fall Year 2		Spring Year 2	
PHYS 220: Modern Physics ⁴	4	PHYS 250: Computational Physics	3
SCDV 230: Electronic Instrumentation	4	$1~\mathrm{from}^{5}$ MATH 240/PHYS 350/CSIS 310	3
MATH 210: Calculus III	4	MATH 230: Linear Algebra	3
CSIS 210: Data Structures	3	CDE	3
Fall Year 3		Spring Year 3	
MATH 250: Discrete Structures I	4	MATH 325: Differential Equations	3
CSIS 380: Computer Graphics	3	CSIS 385: Analysis of Algorithms	3
CDR	3	$1~\mathrm{from}$ MATH 240/PHYS 350/CSIS 310	3
CDP	3	CDH	3
Fall Year 4		Spring Year 4	
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PHYS 310: Mechanics I	3	1 from MATH 240/PHYS 350/CSIS 310	3
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PHYS 310: Mechanics I		1 from MATH 240/PHYS 350/CSIS 310	
PHYS 310: Mechanics I CFD	3	1 from MATH 240/PHYS 350/CSIS 310 1 Elective from: <i>CSIS 225</i> or CSIS 400	3

¹ This track guarantees a minor Computer Science, and a minor in Physics. Any additional course between MATH 300-470 will grant also a minor in Mathematics. All minors must be declared.

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).

²General Physics satisfies the Natural Science Core (CDN) requirement.

 $^{^3{\}rm Calculus}$ satisfies the Quantitative Core (CDQ) requirement.

 $^{^4\}mathrm{Modern}$ Physics satisfies the Natural World Franciscan Core (CFN) requirement.

 $^{^{5}}$ MATH240, PHYS350 and CSIS310 are offered with two- or three-year rotation. Please plan accordingly.