

## Computational Science BS<sup>1</sup> - 4 Years

	Spring Year 1	
4	PHYS 140: General Physics II	4
0	PHYS 142: General Physics Review	0
4	MATH 120: Calculus II	4
3	FYSM 101: First-Year Seminar	3
3	CSIS 120: Introduction to Programming	4
	Spring Year 2	
4	PHYS 250: Computational Physics	3
4	$1~\mathrm{from}^{5}$ MATH 240/PHYS 350/CSIS 310	3
4	MATH 230: Linear Algebra	3
3	CDE	3
	Spring Year 3	
4	MATH 325: Differential Equations	3
3	CSIS 385: Analysis of Algorithms	3
3	1 from MATH 240/PHYS 350/CSIS 310	3
3	CDH	3
	Spring Year 4	
3	1 from MATH 240/PHYS 350/CSIS 310	3
3	1 Elective from: CSIS 225 or CSIS 400	3
3	CFJ	3
3	CFH	3
	1 project/capstone from:	
	0 4 3 3 4 4 4 4 3 3 3 3 3 3	4 PHYS 140: General Physics II 0 PHYS 142: General Physics Review 4 MATH 120: Calculus II 3 FYSM 101: First-Year Seminar 3 CSIS 120: Introduction to Programming  Spring Year 2 4 PHYS 250: Computational Physics 4 1 from 5 MATH 240/PHYS 350/CSIS 310 4 MATH 230: Linear Algebra 3 CDE  Spring Year 3  4 MATH 325: Differential Equations 3 CSIS 385: Analysis of Algorithms 3 1 from MATH 240/PHYS 350/CSIS 310 3 CDH  Spring Year 4  3 1 from MATH 240/PHYS 350/CSIS 310 3 1 Elective from: CSIS 225 or CSIS 400 3 CFJ 3 CFH

<sup>&</sup>lt;sup>1</sup> 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).

<sup>&</sup>lt;sup>2</sup>General Physics satisfies the Natural Science Core (CDN) requirement.

 $<sup>^3</sup>$ Calculus satisfies the Quantitative Core (CDQ) requirement.

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

 $<sup>^5</sup>$  MATH240, PHYS350 and CSIS310 are offered with two- or three-year rotation. Please plan accordingly.