

NATURAL SCIENCES

Physics Option, B.A. (120 Units)

Valid for Catalog Years: 2018/2019 to 2019/2020

*Official planning guide approved by the College of Science & Math

For assistance or to schedule an advising appointment, please contact the

CSM Advising and Resources Center
at 559-278-4150, Science I 136
Department of Science & Mathematics Interdisciplinary Courses and Programs:

	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	15	16	14-15	16-17	13-14	14-18	17	15-17
Milestones								
General Education	A1 (3 Units) Oral Communication *Must pass with a C or better	A2 (3 Units) Written Communication *Must pass with a C or better	C1 (3-4 Units) Arts	C1/C2 (3-4 Units) Arts or Humanities	C2 (3-4 Units) Humanities	D2 (3 Units) American Government	E1 (3 Units) Lifelong Understanding & Self Development	IC (3-4 Units) Arts & Humanities
	A3 (3 Units) Critical Thinking *Must pass with a C or better			D1 (3 Units) American History		D3 (3 Units) Social Science		ID (3-4 Units) Social, Political, & Economic Institutions
Major	GE Area B1 CHEM 1A (3 Units) Physical Sciences [Pre-Req: High school chemistry. May be taken concurrently: GE B4; CHEM 1AL] *Not open to students with credit in CHEM 1B	CHEM 1B (3 Units) [Pre-Req: CHEM 1A & 1AL (both passed with a C or better); CHEM 1BL (may be taken concurrently)]	CHEM 128A (3 Units) [Pre-Req: CHEM 1B or 8 (C or better) or instructor permission]	GE Area B2 BIOL 1A (4 Units) Life Sciences	BIOL 1B (3 Units) [Pre-Req: BIOL 1A; first-time enrollees must take BIOL 1BL concurrently]	EES 1 (4 Units) [Pre-Req: MATH 4R or second-year high school algebra recommended]	GE Area IB EES 168 (3 Units) Physical Universe & Its Life Forms [Pre-Req: GE Foundation & Breadth Area B]	NSCI 106 (3 Units)
	GE Area B3 CHEM 1AL (2 Units) Lab [Pre-Req: CHEM 1A (may be taken concurrently)]	CHEM 1BL (2 Units) [Pre-Req: CHEM 1B (may be taken concurrently)]	MATH 77 (4 Units) [Pre-Req: MATH 76]	MATH 81 (3 Units) [Pre-Req: MATH 77]	BIOL 1BL (1 Unit) [Pre-Req: First-time enrollees must take BIOL 1B concurrently]		BIOL 101 (4 Units) [Pre-Req: BIOL 1A, 1B; PSYCH 42 or MATH 101; MATH 70 or equivalent recommended]	PSCI 168 (3 Units) [Pre-Req: GE Foundation & Breadth Area B]

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Major	GE Area B4 MATH 75 (4 Units) Quantitative Reasoning *See course catalog for prerequisite requirements	MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A & B]	PHYS 4B (3 Units) [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]	PHYS 4C (3 Units) [Pre-Req: PHYS 4B; MATH 77]	PHYS 102 (3 Units) [Pre-Req: PHYS 4C; MATH 81 (may be taken concurrently)]		PHYS 107A (3 Units) [Pre-Req: PHYS 105A; MATH 81]	
		PHYS 4A (3 Units) [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]	PHYS 4BL (1 Unit) [Co-Req: PHYS 4B]		PHYS 105A (3 Units) [Pre-Req: PHYS 4C; MATH 81 (may be taken concurrently)]		PSCI 21 (4 Units) [Pre-Req: Second-year high school algebra recommended]	
		PHYS 4AL (1 Unit) [Co-Req: PHYS 4A]						
Additional Graduation Requirements						UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)		MI (3 Units) Multicultural/International
						MATH 101 (4 Units) [Pre-Req: MATH 70, 75, or 75A & B] *No credit if taken after MATH 108 or PSYCH 42 (4 Units)		

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FOOTNOTES:

Prerequisites/Corequisites: Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements.

Electives (4 units): Units in this area may be used toward a double major or minor. Students must earn a minimum of 120 units total to graduate. The number of required elective units may vary, depending on the amount of units earned from major and GE courses.

Upper Division Writing Skills requirement (UDWS): All undergraduate students must demonstrate competency in writing skills by passing the Upper Division Writing Exam (UDWE) or by obtaining a C or better in an approved upper division writing course, identified by the letter "W."

Substitutions: If substitutions/exceptions/waivers are made for any major courses that also meet GE and/or the Multicultural/International graduation requirement, the student is responsible for completing additional courses to satisfy the respective areas (GE and/or MI). This also includes the upperdivision writing requirement.