

**Physics, B.S. (120 Units)**

Valid for Catalog Years: 2018/2019 to Present

\*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 Physics:**  
559-278-2371, McLane Hall 173

	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	15	16	14-16	15-17	15-20	16	15-16	14-15
<b>Milestones</b>	MATH 75	PHYS 4A; 4AL	PHYS 4B;4BL	PHYS 4C	PHYS 102	PHYS 115	PHYS 110	
<b>General Education</b>	<b>A2 (3 Units)</b> Written Communication *Must pass with a C or better; ENGL 10 recommended	<b>B2 (3-4 Units)</b> Life Sciences	<b>C1 (3-4 Units)</b> Arts	<b>C2 (3-4 Units)</b> Humanities	<b>C1/C2 (3-4 Units)</b> Arts or Humanities	<b>D3 (3 Units)</b> Social Science	<b>E1 (3 Units)</b> Lifelong Understanding & Self Development	<b>ID (3-4 Units)</b> Social, Political, & Economic Institutions
	<b>A3 (3 Units)</b> Critical Thinking *Must pass with a C or better; NSCI 4 recommended		<b>D1 (3 Units)</b> American History		<b>D2 (3 Units)</b> American Government	<b>IB (3 Units)</b> Physical Universe & Its Life Forms	<b>IC (3-4 Units)</b> Arts & Humanities	
	<b>A1 (3 Units)</b> Oral Communication *Must pass with a C or better							
<b>Major</b>	<b>GE Area B1</b> <b>CHEM 1A</b> <b>(3 Units)</b> Physical Sciences *See course catalog for prerequisite requirements	<b>CHEM 1B</b> <b>(3 Units)</b> [Pre-Req: CHEM 1A & 1AL (both passed with a C or better); CHEM 1BL (may be taken concurrently)]	<b>PHYS 4B</b> <b>(3 Units)</b> [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)] {Must pass with a C or better}	<b>MATH 81 (3 Units)</b> [Pre-Req: MATH 77] {Must pass with a C or better}	<b>PHYS 102</b> <b>(3 Units)</b> [Pre-Req: PHYS 4C; MATH 81 (may be taken concurrently)] {Must pass with a C or better}	<b>PHYS 140</b> <b>(3 Units)</b> [Pre-Req: PHYS 102; MATH 81]	<b>PHYS 110</b> <b>(3 Units)</b> [Pre-Req: PHYS 4C; MATH 81]	<b>UD Elective</b> <b>(5-6 Units)</b> *PHYS 136, 137, 150, 151,155,156,157,158, 162,163,168S,,171

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Major	<b>GE Area B3</b> <b>CHEM 1AL</b> <b>(2 Units)</b> Lab [Pre-Req: CHEM 1A (may be taken concurrently)]	<b>CHEM 1BL</b> <b>(2 Units)</b> [Pre-Req: CHEM 1B (may be taken concurrently)]	<b>PHYS 4BL</b> <b>(1 Unit)</b> [Co-Req: PHYS 4B]	<b>PHYS 4C</b> <b>(3 Units)</b> [Pre-Req: PHYS 4B; MATH 77] {Must pass with a C or better}	<b>PHYS 105B</b> <b>(3 Units)</b> [Pre-Req: PHYS 105A]	<b>PHYS 104</b> <b>(4 Units)</b> [Pre-Req: PHYS 4C]	<b>UD Elective</b> <b>(3 Units)</b> *PHYS 136, 137, 150, 151,155,156,157,158, 162,163,168S,,171	
	<b>GE Area B4</b> <b>MATH 75</b> <b>(4 Units)</b> Quantitative Reasoning *See course catalog for prerequisite requirements. {Must pass with a C or better}	<b>PHYS 4A</b> <b>(3 Units)</b> [Pre-Req: GE B4; MATH 76 (may be taken concurrently)] {Must pass with a C or better}	<b>CSCI 40</b> <b>(4 Units)</b> [Pre-Req: ELM or College Intermediate Algebra (C or better); trigonometry] or <b>ECE 71</b> <b>(3 Units)</b>	<b>PHYS 105A</b> <b>(3 Units)</b> [Pre-Req: PHYS 4C; MATH 81 (may be taken concurrently)] {Must pass with a C or better}	<b>PHYS 107A</b> <b>(3 Units)</b> [Pre-Req: PHYS 105A; MATH 81]	<b>PHYS 115</b> <b>(3 Units)</b> [Pre-Req: PHYS 102, 105A; MATH 81; PHYS 170A strongly recommended]		
			<b>PHYS 4AL</b> <b>(1 Unit)</b> [Co-Req: PHYS 4A]	<b>MATH 77</b> <b>(4 Units)</b> [Pre-Req: MATH 76] {Must pass with a C or better}	<b>UD Elective</b> <b>(3 Units)</b> *PHYS 170A recommended			
			<b>MATH 76</b> <b>(4 Units)</b> [Pre-Req: MATH 75 or MATH 75A & B] {Must pass with a C or better}					

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<b>Additional Graduation Requirements</b>					<b>UDWS (0-4 Units)</b> *Upper Division Writing Exam OR "W" Course (must pass with a C or better)			<b>MI (3 Units)</b> Multicultural/International

**FOOTNOTES:**

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

**Grade Requirements:** CR/NC grading is not permitted in the Physics major. Additional requirements, however, may be taken CR/NC.

**UD Electives (11 units):** Includes courses in Physics and, with approval, related fields. Students planning to pursue graduate study in physics are strongly encouraged to take courses from the following list: PHYS 170A,107B, 135, 136,137,150,151,155,156,157,158, 162,163,168S,171 and 180. Courses outside the Department of Physics may be substituted for physics upper-division electives with prior approval of the department chair.

**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.