

**Biomedical 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	
	Freshman	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>Units</b>	<b>15</b>	<b>17</b>	<b>15</b>	<b>15-17</b>	<b>15-20</b>	<b>14</b>	<b>17-18</b>	<b>13-14</b>
<b>Milestones</b>	<b>MATH 75 (4 units)</b>	<b>PHYS 4A (3 Units)</b>	<b>PHYS 4B (3 Units)</b>	<b>PHYS 4C (3 Units)</b>	<b>PHYS 136 (3 Units)</b>			
<b>General Education</b>	<b>A2 (3 Units)</b> Written Communication *Must pass with a C or better; ENGL 10 recommended	<b>A1 (3 Units)</b> Oral Communication *Must pass with a C or better	<b>B2 (4 Units)</b> Life Sciences *BIOL 1A recommended	<b>C1 (3-4 Units)</b> Arts	<b>C1/C2 (3-4 Units)</b> Arts or Humanities	<b>D2 (3 Units)</b> American Government	<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			<b>C2 (3-4 Units)</b> Humanities		<b>D3 (3 Units)</b> Social Science	<b>IB (3 Units)</b> Physical Universe & Its Life Forms	
				<b>D1 (3 Units)</b> American History			<b>IC (3-4 Units)</b> Arts & Humanities	
<b>Major</b>	<b>GE Area B1</b> <b>CHEM 1A (3 Units)</b> Physical Sciences [Pre-Req: High school chemistry. May be taken concurrently: GE B4; CHEM 1AL] *Not open to students with credit in CHEM 1B	<b>CHEM 1B (3 Units)</b> [Pre-Req: CHEM 1A & 1AL (both passed with a C or better); CHEM 1BL (may be taken concurrently)]	<b>ECE 71 (3 Units)</b> [Pre-Req: ELM or College Intermediate Algebra (C or better); trigonometry]	<b>MATH 81 (3 Units)</b> [Pre-Req: MATH 77]	<b>BIOL 67A (4 Units)</b> [Pre-Req: C or better in BIOL 20 or BIOL 1A & CHEM 1A (or CHEM 3A if allowed by major)] *Not open to students with credit in BIOL 33, 64, or 65	<b>BIOL 144 (4 Units)</b> [Pre-Req: BIOL 33, 64, or 65]	<b>PHYS 135 (4 Units)</b> [Pre-Req: PHYS 4A, 4AL, 4B, 4BL, 4C]	<b>PHYS 157 (4 Units)</b> [Pre-Req: PHYS 136]
	<b>GE Area B3</b> <b>CHEM 1AL (2 Units)</b> Lab [Pre-Req: CHEM 1A (may be taken concurrently)]	<b>CHEM 1BL (2 Units)</b> [Pre-Req: CHEM 1B (may be taken concurrently)]	<b>MATH 77 (4 Units)</b> [Pre-Req: MATH 76]	<b>PHYS 4C (3 Units)</b> [Pre-Req: PHYS 4B; MATH 77]	<b>PHYS 102 (3 Units)</b> [Pre-Req: PHYS 4C; MATH 81 (may be taken concurrently)]	<b>PHYS 137 (3 Units)</b> [Pre-Req: PHYS 136]	<b>PHYS 156 (4 Units)</b> [Pre-Req: PHYS 136]	<b>PHYS 158 (3 Units)</b> [Pre-Req: PHYS 136]

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<b>Major</b>	<b>GE Area B4</b> <b>MATH 75</b> <b>(4 Units)</b> Quantitative Reasoning *See course catalog for prerequisite requirements	<b>MATH 76</b> <b>(4 Units)</b> [Pre-Req: MATH 75 or MATH 75A & B]	<b>PHYS 4B</b> <b>(3 Units)</b> [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]		<b>PHYS 136</b> <b>(3 Units)</b> [Co-Req: PHYS 102]	<b>PHYS 155</b> <b>(1 Unit)</b>		
		<b>PHYS 4A</b> <b>(3 Units)</b> [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]	<b>PHYS 4BL</b> <b>(1 Unit)</b> [Co-Req: PHYS 4B]		<b>ECE 72</b> <b>(2 Units)</b> [Pre-Req: ECE 71 or CSCI 40]			
		<b>PHYS 4AL</b> <b>(1 Unit)</b> [Co-Req: PHYS 4A]						
		<b>PHYS 155</b> <b>(1 Unit)</b>						
<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 Biomedical Physics major. Additional requirements, however, may be taken for CR/NC.

**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.