

**Physics Education Major Courses (46-47 credits)**

**Required Major Courses (34 credits)**

- \_\_\_\_\_ (4) PHYS 17200 (also satisfies Science Selective for core and CoS teambuilding experience requirement)
- \_\_\_\_\_ (4) PHYS 27200 (also satisfies Science Selective for core)
- \_\_\_\_\_ (3) PHYS 30600 (fall)
- \_\_\_\_\_ (3) PHYS 30700 (spring)
- \_\_\_\_\_ (4) PHYS 31000 (fall)
- \_\_\_\_\_ (3) PHYS 33000 (fall)
- \_\_\_\_\_ (1) PHYS 34000
- \_\_\_\_\_ (4) PHYS 34400 (fall)
- \_\_\_\_\_ (3) PHYS 36000 (spring)
- \_\_\_\_\_ (3) PHYS 42200 (spring)
- \_\_\_\_\_ (2) PHYS 45000

**Major Selective\* - (12-13 credits)**

- \_\_\_\_\_ (3) PHYS/ASTR ≥300 level
- \_\_\_\_\_ (3-4) PHYS 53600 or PHYS 580 (spring)
- \_\_\_\_\_ (3) Science/Engineering ≥300 level (could be met by CoS statistics requirement)
- \_\_\_\_\_ (3) Science/Engineering ≥300 level (could be met by CoS Great Issues requirement)

**Other Departmental /Program Course Requirements (41-68 credits)**

- \_\_\_\_\_ (4-5) MA 16100 or MA 16500 (satisfies Quantitative Reasoning Selective for core)
- \_\_\_\_\_ (4-5) MA 16200 or MA 16600 (satisfies Quantitative Reasoning Selective for core)
- \_\_\_\_\_ (4) MA 26100 (satisfies Quantitative Reasoning Selective for core)
- \_\_\_\_\_ (4) CHM 11500 (satisfies Science Selective for core)
- \_\_\_\_\_ (4) CHM 11600 (satisfies Science Selective for core)
- \_\_\_\_\_ (3-4) C S 15800 or CS 17700 or CS 18000 [LINK](#) (satisfies CoS Computing and Teambuilding Experience Requirement)
- \_\_\_\_\_ (3) STAT 30100 [LINK](#) (satisfies Information Literacy Selective for core) or STAT 35000 or STAT 50300 or STAT 51100 (satisfies CoS statistics requirement) (satisfies one of the Science/Engineering requirements for Physics Selective)
- \_\_\_\_\_ ENGL 10600 or ENGL 10800 [LINK](#) (satisfies Written Communication & Information Literacy for core and CoS composition requirement)
- \_\_\_\_\_ (3-6) requirement)
- \_\_\_\_\_ (0-6) COM 21700 [LINK](#) (satisfies Oral Communication for core and CoS technical writing and presenting requirement)
- \_\_\_\_\_ (0-4) Language I Selective - [LINK](#)
- \_\_\_\_\_ (0-4) Language II Selective - [LINK](#)
- \_\_\_\_\_ Language and Culture III Selective - [LINK](#) (Select courses COULD satisfy Human Cultures Humanities for core-could be met by EDCI 28500)
- \_\_\_\_\_ (0-4)
- \_\_\_\_\_ (3) General Education Elective I [LINK](#) (Select courses could satisfy Human Cultures Humanities for core)
- \_\_\_\_\_ (3) General Education Elective II [LINK](#) (Select courses could satisfy Human Cultures Humanities for core)
- \_\_\_\_\_ (3) General Education Elective III [LINK](#) (Select courses could satisfy Humanities Behavioral/Social Science for core- can be met by EDPS 23500)
- \_\_\_\_\_ (3) Great Issues [LINK](#) (satisfies one of the Science/Engineering requirements for Physics Selective)
- \_\_\_\_\_ (0-3) Multidisciplinary Elective [LINK](#) (Select courses could satisfy Science, Technology & Society Selective for core)

**Professional Education Requirements (36 credits)**

- \_\_\_\_\_ (3) EDCI 27000 (satisfies Information Literacy for core)
- \_\_\_\_\_ (3) EDCI 30900
- \_\_\_\_\_ (3) EDST 20000 (Satisfies Human Cultures Humanities for core)
- \_\_\_\_\_ (3) EDCI 20500 (Satisfies Written Communication for core)
- \_\_\_\_\_ (3) EDCI 28500 (Satisfies Humanities Behavioral/Social Science for core and CoS language/culture requirement)
- \_\_\_\_\_ (3) EDPS 23500 (Satisfies Humanities Behavioral/Social Science for core and CoS General Education requirement)
- \_\_\_\_\_ (3) EDPS 26500
- \_\_\_\_\_ (3) EDCI 42400 (fall) (also meets CoS Multidisciplinary Requirement)
- \_\_\_\_\_ (2) EDCI 42800 (spring)
- \_\_\_\_\_ (10) EDCI 49800 (also meets CoS Teambuilding Experience Requirement)

**University Core Requirements [LINK](#)**

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			

**The student is ultimately responsible for knowing and completing all degree requirements.**

## Physics Education

### Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4	PHYS 17200* <sup>^</sup> (HONORS )	MA 161 coreq	4	PHYS 27200* <sup>^</sup> (HONORS)	PHYS 17200 + MA 162 coreq
5	MA 16100* <sup>^</sup>	ALEKS 85%	4	CHM 11600* <sup>^</sup>	CHM 11500
4	CHM 11500*	MA 161 coreq	5	MA 16200*	
4	ENGL 10600*		3	EDCI 27000*	
<b>17</b>			<b>16</b>		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	PHYS 30600 <sup>^</sup>	PHYS 272 + coreq MA 261	3	PHYS 30700 <sup>^</sup>	PHYS 272 + coreq MA 261
1	PHYS 34000 <sup>^</sup>	coreq Phys 344	3	PHYS 42200 <sup>^</sup>	PHYS 272
4	PHYS 34400 <sup>^</sup>	PHYS 272 + coreq MA 261	3	STAT 30100* (Sci/Engr Selective)	
4	MA 26100*	MA 162	3	EDCI 20500*	
3-4	LANGUAGE 101		3	EDCI 28500* (Culture)	
			3-4	LANGUAGE 102	Language 101
<b>15-16</b>			<b>18-19</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
4	PHYS 31000 <sup>^</sup>	PHYS 272 + MA 261	3	PHYS 36000 <sup>^</sup>	(PHYS 310 or 330) + PHYS 344
3	PHYS 33000 <sup>^</sup>	PHYS 272 + MA 261	4 -3	PHYS 53600 (or PHYS 58000)	PHYS 272 ( or PHYS 344 + 310)
2	PHYS 45000 <sup>^</sup>	PHYS 42200	3	COM 21700	
3	EDPS 23500* (General Education)	EDCI 205,285 (C- or better)	3	General Ed (Humanities)*	
3	EDPS 26500	EDCI 205,285 (C- or better)	3	EDST 20000*	
3	General Ed (Humanities)*				
<b>18</b>			<b>15-16</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	PHYS/ASTR $\geq$ 300 level	Prerequisites may vary	2	EDCI 42800	EDCI 205,285, 424 (C- or better)
3	EDCI 42400 (Multidisciplinary)	EDCI 205,285 (C- or better)	10	EDCI 49800 (team experience)	EDCI 205,285 (C- or better)
3	Great Issues (Sci/Engr selective)	Prerequisites may vary	3	EDCI 30900	
3-4	CS 15800 (or CS 17700)	MA 161 coreq			
<b>15-16</b>			<b>15</b>		

\*Satisfies a University Core Requirement

**$\geq$ 120 semester credits required for Bachelor of Science degree.**

**2.0 Graduation GPA required for Bachelor of Science degree.**

**2.0 average in PHYS/ASTR classes required to graduate.**

**2.5 average in Physics Content courses required to graduate (those denoted by ^)**

**3.0 average in Professional Education courses required to graduate ( No grade below a C- )**

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**The student is ultimately responsible for knowing and completing all degree requirements.**

**Degree Works is knowledge source for specific requirements and completion**

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