

<b>Student ID:</b> _____	<b>Catalog:</b> 2017-2018 Catalog
<b>Student Name:</b> _____	<b>Program:</b> Physics - Premedical Physics, B.S.
<b>Adviser Name:</b> _____	<b>Minimum Credits Required:</b> _____

## Physics - Premedical Physics, B.S.

<b>Major Code:</b> 7139	<b>Degree Awarded:</b> Bachelor of Science
<b>Delivery Mode(s):</b> Classroom	<b>Age Restriction:</b> No
<b>Admission Status:</b> Undergraduate	<b>Location(s):</b> Main Campus - Melbourne

The premedical major offers the courses needed to meet the entrance requirements of essentially all schools of medicine, dentistry, osteopathic medicine, podiatry and optometry. The premedical advisor organizes a premedical evaluation committee to provide evaluation letters for students applying to medical school. Premedical physics majors have very high acceptance rates into medical and professional schools. Note this program is also an excellent choice for the student interested in a prelaw curriculum.

### Degree Requirements

Candidates for the Bachelor of Science in Physics - Premedical Physics must complete the course requirements listed in the following curriculum. Because the subject matter of general physics forms a critically important foundation for all advanced physics courses, the minimum grade for satisfying the prerequisite requirements for a physics major is a grade of C for each of the following courses:

- PHY 1001 Physics 1
- PHY 2002 Physics 2
- PHY 2003 Modern Physics
- PHY 2091 Physics Laboratory 1
- PHY 2092 Physics Laboratory 2

### Freshman Year

#### Fall (17 credit hours)

Course Name	Term Taken	Grade	Gen Ed
BIO 1010 Biological Discovery 1 *			
CHM 1101 General Chemistry 1			
COM 1101 Composition and Rhetoric			
FYE 1000 University Experience			
MTH 1001 Calculus 1 * or MTH 1010 Mathematical Analysis 1			
PHY 1050 Physics and Space Science Seminar			

#### Spring (17 credit hours)

Course Name	Term Taken	Grade	Gen Ed
BIO 1020 Biological Discovery 2			
CHM 1102 General Chemistry 2			
MTH 1002 Calculus 2 or MTH 1020 Mathematical Analysis 2			
PHY 1001 Physics 1			
PHY 2091 Physics Laboratory 1			

### Sophomore Year

#### Fall (17 credit hours)

Course Name	Term Taken	Grade	Gen Ed
CHM 2001 Organic Chemistry 1			
CHM 2011 Organic Chemistry Laboratory 1			
COM 1102 Writing About Literature			
MTH 2001 Calculus 3			
PHY 2002 Physics 2			
PHY 2092 Physics Laboratory 2			

#### Spring (15 credit hours)

Course Name	Term Taken	Grade	Gen Ed
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CHM 2002 Organic Chemistry 2			
CHM 2012 Organic Chemistry Laboratory 2			
COM 2223 Scientific and Technical Communication			
MTH 2201 Differential Equations/Linear Algebra			
PHY 2003 Modern Physics			
<b>Junior Year</b>			
<b>Fall (18 credit hours)</b>			
<b>Course Name</b>	<b>Term Taken</b>	<b>Grade</b>	<b>Gen Ed</b>
HUM 2051 Civilization 1: Ancient Through Medieval			
MTH 3210 Introduction to Partial Differential Equations and Applications			
PHY 3011 Physical Mechanics			
PHY 3060 Thermodynamics, Kinetic Theory and Statistical Mechanics			
Technical Elective Credit Hours: 4			
<b>Spring (17 credit hours)</b>			
<b>Course Name</b>	<b>Term Taken</b>	<b>Grade</b>	<b>Gen Ed</b>
CSE 1502 Introduction to Software Development With C++			
PHY 3035 Quantum Mechanics			
PHY 3440 Electromagnetic Theory			
Humanities Core Course Credit Hours: 3 Technical Elective Credit Hours: 4			
<b>Senior Year</b>			
<b>Fall (13 credit hours)</b>			
<b>Course Name</b>	<b>Term Taken</b>	<b>Grade</b>	<b>Gen Ed</b>
PHY 4200 Senior Seminar 1 (Q)			
Humanities Elective Credit Hours: 3 Restricted Elective (PHY 4xxx) Credit Hours: 3 Technical Electives Credit Hours: 6			
<b>Spring (14 credit hours)</b>			
<b>Course Name</b>	<b>Term Taken</b>	<b>Grade</b>	<b>Gen Ed</b>
PHY 4210 Senior Seminar 2 (Q)			
Social Science Elective Credit Hours: 3 Technical Electives Credit Hours: 10			
<b>Total Credits Required: 128</b>			
<i>*Students should register for BIO 1010 Biological Discovery 1. Students who place into MTH 1002 Calculus 2 or MTH 1020 Mathematical Analysis 2 are encouraged to take PHY 1001 Physics 1 in the first semester and BIO 1010 Biological Discovery 1 later in the program.</i>			
<b>Technical Electives</b>			
As the department has deemed some technical electives more important than others, students should discuss all technical elective course choices with their advisor before registration.			
<b>Course Name</b>	<b>Term Taken</b>	<b>Grade</b>	<b>Gen Ed</b>
BIO 2110 General Genetics (recommended for fall of junior year)			
BIO 3210 Mammalian Physiology			
BIO 4010 Biochemistry 1			
BIO 4110 Biochemistry 2			
BIO 4301 Cell Biology			
BIO 4550 Comparative Vertebrate Anatomy			
CHM 3301 Analytical Chemistry 1			
CHM 3311 Analytical Chemistry Laboratory 1			

Any 3000- or 4000-level PHY course Credit Hours: 2			
<b>Humanities Core Courses</b>			
Not all humanities core courses are offered online or every term; check the current schedule of classes for humanities core options.			
Course Name	Term Taken	Grade	Gen Ed
HUM 2052 Civilization 2: Renaissance Through Modern			
HUM 2142 World Art History 2: Early Modern to Post-Colonial			
HUM 2212 British and American Literature 1			
HUM 2213 British and American Literature 2			
HUM 2331 American History: Pre-Columbian to Civil War Era			
HUM 2332 American History: From Reconstruction to the Present			
HUM 3333 American Military History			
<b>Notes:</b>			