**DEGREE PLANNING GUIDE: 2018-19**

**PHYSICS BS (recommended courses starting with MATH 114)**

This suggested schedule is a great planning resource but it is critical that you discuss your specific academic plans with a physics advisor. If you don’t have a physics advisor the Physics Departmental Chair would be happy to talk over your options.

<table>
<thead>
<tr>
<th>First year (&lt;28 credits)</th>
<th>Sophomore (28-59 credits)</th>
<th>Junior (60-91 credits)</th>
<th>Senior (92+ credits)</th>
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<td><strong>Semester 1</strong></td>
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<td>PHYS 154</td>
<td>PHYS 215</td>
<td>PHYS 331 (even fall)</td>
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<td>ENGR 240 or ENGR 350</td>
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<td>MATH 114</td>
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<td>PHYS 225</td>
<td>PHYS 323 (odd spring)</td>
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<td>CISC 131</td>
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**Requirements for Degree**

**Program Core Courses**

- PHYS 211 Introduction to Classical Physics I (fall, spring, summer)
- PHYS 212 Introduction to Classical Physics II (fall, spring, summer)
- PHYS 215 Foundations of Modern Physics (fall)
- PHYS 225 Applications of Modern Physics (spring)
- PHYS 323 Methods of Experimental Physics (odd spring)
- PHYS 325 Methods of Computational Physics (even spring)
- PHYS 331 Theoretical Mechanics (even fall)
- PHYS 341 Electricity and Magnetism (fall)
- PHYS 410 Statistical Mechanics (even spring)
- PHYS 431 Quantum Mechanics (odd spring)

*Plus eight elective Physics credits PHYS 150 or greater*

**Electives**

- PHYS 154 Astronomy for Scientists (fall)
- PHYS 342 Electromagnetic Waves (spring)
- PHYS 347 Optics (fall)
- PHYS 354 Astrophysics (odd fall)

**Allied Requirements**

- MATH 113 Calculus I
- MATH 114 Calculus II
- MATH 200 Multi-variable Calculus
- MATH 210 Intro to Differential Eq. & Systems
- MATH 240 Linear Algebra
- ENGR 240 Circuit Analysis
  or
- ENGR 350 Introduction to Electronics
- CISC 131 Introduction to Programing and Problem Solving *(recommended)*
  or
- CISC 130 Introduction to Programing and Problem Solving in the Sciences
**DEGREE PLANNING GUIDE: 2018-19**

**PHYSICS BS (recommended courses starting with MATH 113)**

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<td>MATH 114</td>
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**Requirements for Degree**

**Program Core Courses**

- PHYS 211 Introduction to Classical Physics I *(fall, spring, summer)*
- PHYS 212 Introduction to Classical Physics II *(fall, spring, summer)*
- PHYS 215 Foundations of Modern Physics *(fall)*
- PHYS 225 Applications of Modern Physics *(spring)*
- PHYS 323 Methods of Experimental Physics *(odd spring)*
- PHYS 325 Methods of Computational Physics *(even spring)*
- PHYS 331 Theoretical Mechanics *(even fall)*
- PHYS 341 Electricity and Magnetism *(fall)*
- PHYS 410 Statistical Mechanics *(even spring)*
- PHYS 431 Quantum Mechanics *(odd spring)*

*Plus eight elective Physics credits PHYS 150 or greater*

**Electives**

- PHYS 154 Astronomy for Scientists *(fall)*
- PHYS 342 Electromagnetic Waves *(spring)*
- PHYS 347 Optics *(fall)*
- PHYS 354 Astrophysics *(odd fall)*

**Allied Requirements**

- MATH 113 Calculus I
- MATH 114 Calculus II
- MATH 200 Multi-variable Calculus
- MATH 210 Intro to Differential Eq. & Systems
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- ENGR 240 Circuit Analysis
  *or*
- ENGR 350 Introduction to Electronics
- CISC 131 Introduction to Programming and Problem Solving *(recommended)*
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- CISC 130 Introduction to Programming and Problem Solving in the Sciences
DEGREE PLANNING GUIDE: 2018-19

PHYSICS BS (recommended courses starting with MATH 108)

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Requirements for Degree

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*Plus eight elective Physics credits PHYS 150 or greater*

**Electives**
- PHYS 154 Astronomy for Scientists (fall)
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**Allied Requirements**
- MATH 113 Calculus I
- MATH 114 Calculus II
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- MATH 210 Intro to Differential Eq. & Systems
- MATH 240 Linear Algebra
- ENGR 240 Circuit Analysis
  or
- ENGR 350 Introduction to Electronics

*If you placed into MATH 108 you will need to take summer courses to stay on track for a four-year graduation timeline.*