

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.

First year (<28 credits)	Sophomore (28-59 credits)	Junior (60-91 credits)	Senior (92+ credits)
Semester 1 PHYS 154 PHYS 211 MATH 114	Semester 1 PHYS 215 ENGR 240 or ENGR 350 MATH 210	Semester 1 PHYS 331 (even fall) PHYS 341 or PHYS elective	Semester 1 PHYS 331 (even fall) PHYS 341 or PHYS elective
Semester 2 PHYS 212 CISC 131 MATH 200	Semester 2 PHYS 225 PHYS 323 (odd spring) PHYS 325 (even spring) MATH 240	Semester 2 PHYS 323 (odd spring) PHYS 325 (even spring) PHYS 410 (even spring) PHYS 431 (odd spring)	Semester 2 PHYS 410 (even spring) PHYS 431 (odd spring)

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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First year (<28 credits)	Sophomore (28-59 credits)	Junior (60-91 credits)	Senior (92+ credits)
Semester 1 PHYS 154 MATH 113	Semester 1 PHYS 212 MATH 200 MATH 210	Semester 1 PHYS 215 PHYS 331 (even fall) PHYS 341 or PHYS elective	Semester 1 PHYS 331 (even fall) PHYS 341 or PHYS elective
Semester 2 PHYS 211 CISC 131 MATH 114	Semester 2 PHYS 225 PHYS 323 (odd spring) PHYS 325 (even spring) MATH 240	Semester 2 PHYS 323 (odd spring) PHYS 325 (even spring) PHYS 410 (even spring) PHYS 431 (odd spring) ENGR 240 or ENGR 350	Semester 2 PHYS 410 (even spring) PHYS 431 (odd spring)

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 108)

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.

First year (<28 credits)		Sophomore (28-59 credits)	Junior (60-91 credits)	Senior (92+ credits)
Semester 1 PHYS 154 MATH 108		Semester 1 PHYS 212 MATH 200 MATH 210	Semester 1 PHYS 215 PHYS 331 (even fall) PHYS 341 or PHYS elective	Semester 1 PHYS 331 (even fall) PHYS 341 or PHYS elective
Semester 2 CISC 131 MATH 109		Semester 2 PHYS 225 PHYS 323 (odd spring) PHYS 325 (even spring) MATH 240	Semester 2 PHYS 323 (odd spring) PHYS 325 (even spring) PHYS 410 (even spring) PHYS 431 (odd spring) ENGR 240 or ENGR 350	Semester 2 PHYS 410 (even spring) PHYS 431 (odd spring)
Summer Session I PHYS 211	Summer Session II MATH 114			

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

Note

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