

Suggested Sequence of Courses Taken by Physics Majors B.A. Standard Option

	Students enrolled in the Fall Semester			Students enrolled in the Spring Semester			
Year 1	Fall	Phys 145.4+145.1 (4+1 credits)	Principles of Physics I + Lab				
	Spring	Phys 146.4+146.1 (4+1 credits)	Principles of Physics II + Lab				
Year 2	Fall	Phys 222 (3 credits)	Optics	Fall	Phys 146.4+146.1 (4+1 credits)	Principles of Physics II + Lab	
		Phys 233 (3 credits)	Intermediate Methods of Mathematical Physics I				
		Phys 242 or 243 (3 or 4 credits)	Thermodynamics [Thermodynamics and Statistical Mechanics]				
	Spring	Phys 225 (4 credits)	Solid State Electronics	Spring	Phys 234 (3 credits)	Intermediate Methods of Mathematical Physics II	
		Phys 234 (3 credits)	Intermediate Methods of Mathematical Physics II		Phys 237 (4 credits)	Mechanics	
		Phys 237 (4 credits)	Mechanics				

Suggested Sequence, B.A. Standard Option (continued)

Year 3	Fall	Phys 235 (2 credits)	Classical Physics Laboratory	Fall	Phys 233 (3 credits)	Intermediate Methods of Mathematical Physics I
		Phys 260 (4 credits)	Introduction to Modern Physics		Phys 235 (2 credits)	Classical Physics Laboratory
		Phys 310 (4 credits)	Electromagnetism 1		Phys 260 (4 credits)	Introduction to Modern Physics
	Spring	Phys 311 (3 credits)	Electromagnetism 2	Spring	Phys 225 (4 credits)	Solid State Electronics
		Phys 365 (4 credits)	Principles of Quantum Mechanics		Phys 377 (2 credits)	Modern Physics Laboratory
		Phys 377 (2 credits)	Modern Physics Laboratory			
Year 4				Fall	Phys 222 (3 credits)	Optics
					Phys 242 or 243 (3 or 4 credits)	Thermodynamics [Thermodynamics and Statistical Mechanics]
					Phys 310 (4 credits)	Electromagnetism 1
				Spring	Phys 311 (3 credits)	Electromagnetism 2
					Phys 365 (4 credits)	Principles of Quantum Mechanics
Total Major credits: 49–50						

Notes:

1. Students must take the Math 141, 142, 143 sequence or Math 151, 152 sequence, followed by Math 201, to complete prerequisites for Physics courses (refer to the Majors Requirements course list for prerequisite details). Calculus AP credit may be an equivalent for Math 141 or 151; Math 141 or 151 is a prerequisite to Phys 145, and must be taken prior to Fall/Spring enrollment in Physics.
2. Students should be sure to take one or two appropriate courses each semester until they have fulfilled their Area of Knowledge, writing-intensive, foreign language, English 110, and physical education requirements.
3. Students are encouraged to take several elective courses, or to consider a minor, in one or more of the following departments: Computer Science, Mathematics, and Chemistry.

Suggested Sequence of Courses Taken by Physics Majors B.A. Applied Physics/Pre-Eng. Option

	Students enrolled in the Fall Semester		Students enrolled in the Spring Semester	
Year 1	Fall	Phys 145.4+145.1 (4+1 credits)		
	Spring	Phys 146.4+146.1 (4+1 credits)	Spring	Phys 145.4+145.1 (4+1 credits)
Year 2	Fall	Phys 222 (3 credits)	Fall	Phys 146.4+146.1 (4+1 credits)
		Phys 233 (3 credits)		
		Phys 242 or 243 (3 or 4 credits)		
	Spring	200 level Physics elective (3 or 4 credits)	Spring	200 level Physics elective (3 or 4 credits)
		Phys 225 (4 credits)		Phys 237 (4 credits)
		Phys 237 (4 credits)		
Year 3	Fall	Phys 235 (2 credits)	Fall	Phys 233 (3 credits)
		Phys 260 (4 credits)		Phys 235 (2 credits)
		Phys 310 (4 credits)		Phys 260 (4 credits)
	Spring	Phys 377 (2 credits)	Spring	Phys 225 (4 credits)
				Phys 377 (2 credits)
Year 4			Fall	Phys 222 (3 credits)
				Phys 242 or 243 (3 or 4 credits)
				Phys 310 (4 credits)
Total Major credits: 45–48				

Notes:

1. Students must take the Math 141, 142, 143 sequence or Math 151, 152 sequence, followed by Math 201, to complete prerequisites for Physics courses (refer to the Majors Requirements course list for prerequisite details). Calculus AP credit may be an equivalent for Math 141 or 151; Math 141 or 151 is a prerequisite to Phys 145, and must be taken prior to Fall/Spring enrollment in Physics.
2. Students should be sure to take one or two appropriate courses each semester until they have fulfilled their Area of Knowledge, writing-intensive, foreign language, English 110, and physical education requirements.
3. Students are encouraged to take several elective courses, or to consider a minor, in one or more of the following departments: Computer Science, Mathematics, and Chemistry.

Suggested Sequence of Courses Taken by Physics Majors B.Sc. Option

	Students enrolled in the Fall Semester			Students enrolled in the Spring Semester			
Year 1	Fall	Phys 145.4+145.1 (4+1 credits)	Principles of Physics I + Lab				
	Spring	Phys 146.4+146.1 (4+1 credits)	Principles of Physics II + Lab				Spring
Year 2	Fall	Phys 222 (3 credits)	Optics	Fall	Phys 146.4+146.1 (4+1 credits)	Principles of Physics II + Lab	
		Phys 233 (3 credits)	Intermediate Methods of Mathematical Physics I				
		Phys 243 (4 credits)	Thermodynamics and Statistical Mechanics				
	Spring	Phys 225 (4 credits)	Solid State Electronics	Spring	Phys 234 (3 credits)	Intermediate Methods of Mathematical Physics II	
		Phys 234 (3 credits)	Intermediate Methods of Mathematical Physics II		Phys 237 (4 credits)	Mechanics	
		Phys 237 (4 credits)	Mechanics				

Suggested Sequence, B.Sc. Option (continued)

Year 3	Fall	Phys 235 (2 credits)	Classical Physics Laboratory	Fall	Phys 233 (3 credits)	Intermediate Methods of Mathematical Physics I	
		Phys 260 (4 credits)	Introduction to Modern Physics		Phys 235 (2 credits)	Classical Physics Laboratory	
		Phys 310 (4 credits)	Electromagnetism 1		Phys 260 (4 credits)	Introduction to Modern Physics	
	Spring	Spring	Phys 311 (3 credits)	Electromagnetism 2	Spring	Phys 225 (4 credits)	Solid State Electronics
			Phys 345 (4 credits)	Solid State Physics		Phys 377 (2 credits)	Modern Physics Laboratory
			Phys 365 (4 credits)	Principles of Quantum Mechanics			
			Phys 377 (2 credits)	Modern Physics Laboratory			

Suggested Sequence, B.Sc. Option (continued)

Year 4		Fall	Phys 222 (3 credits)	Optics
			Phys 243 (4 credits)	Thermodynamics and Statistical Mechanics
			Phys 310 (4 credits)	Electromagnetism 1
		Spring	Phys 311 (3 credits)	Electromagnetism 2
			Phys 345 (4 credits)	Solid State Physics
			Phys 365 (4 credits)	Principles of Quantum Mechanics
<i>Total Major credits: 57–58</i>				

Notes:

1. Students must take the Math 141, 142, 143 sequence or Math 151, 152 sequence, followed by Math 201, to complete prerequisites for Physics courses (refer to the Majors Requirements course list for prerequisite details). Calculus AP credit may be an equivalent for Math 141 or 151; Math 141 or 151 is a prerequisite to Phys 145, and must be taken prior to Fall/Spring enrollment in Physics.
2. Students should be sure to take one or two appropriate courses each semester until they have fulfilled their Area of Knowledge, writing-intensive, foreign language, English 110, and physical education requirements.
3. Students are encouraged to take several elective courses, or to consider a minor, in one or more of the following departments: Computer Science, Mathematics, and Chemistry.