

TYPICAL COURSE SEQUENCE FOR PHYSICS/ASTRONOMY

Odd Year Entry

Freshman Year

Fall			Spring		
PHYS-141	Mechanics/Thermal	3	PHYS-142	E & M/Waves	3
PHYS-141L	Experimental Physics I	1	PHYS-142L	Experimental Physics II	1
PHYS-190	Freshman Seminar	1	MATH-132	Calculus II	4
MATH-131	Calculus I	4	CORE-115	Core	5
CORE-110	Core	5	CC	Christ College	8
CC	Christ College	8			
Total (with Core)		14	Total (with Core)		13
Total (with CC)		17	Total (with CC)		16

Sophomore Year

Fall			Spring		
PHYS-243	Modern Physics	3	PHYS-245	Experimental Physics III	1
PHYS-281/281L	Electricity/Electronics	3	PHYS-246	Data Reduction and Error...	1
MATH-253	Calculus III	4	PHYS-250	Mechanics	3
CS-157	Algorithms & Programming	3	ASTR-221	Observational Astronomy	1
			ASTR-253	Astrophysics - Galaxies	3
			MATH-260/270	Linear Alg/Diff Equations	4
			MATH-264/270	Linear Alg/Diff Equations	6
Total		13	Total		13

Junior Year

Fall			Spring		
PHYS-345	Experimental Physics IV	1	PHYS-422	Quantum Mechanics II	3
PHYS-371	Electromagnetic Fields	3	PHYS-430	Nuclear Physics	3
PHYS-421	Quantum Mechanics I	3	PHYS-430L	Nuclear Physics Lab	1
			ASTR-252	Astrophysics - Stars	3
Total		7	Total		10

Senior Year

Fall			Spring		
PHYS-360	Thermal Physics	3	PHYS-372	Electromagnetic Waves	3
PHYS-381	Advanced Mechanics	3	PHYS-440	Condensed Matter Physics	3
PHYS-440	Condensed Matter Physics	3	PHYS-445	Senior Research	1
PHYS-445	Senior Research	1	MATH-330	Partial Diff. Eq.	3
MATH-334	Complex Variables	3			
Total		13	Total		10

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Even Year Entry

Freshman Year

Fall			Spring		
PHYS-141	Mechanics/Thermal	3	PHYS-142	E & M/Waves	3
PHYS-141L	Experimental Physics I	1	PHYS-142L	Experimental Physics II	1
PHYS-190	Freshman Seminar	1	MATH-132	Calculus II	4
MATH-131	Calculus I	4	CORE-115	Core	5
CORE-110	Core	5	CC	Christ College	8
CC	Christ College	8			
Total (with Core)		14	Total (with Core)		13
Total (with CC)		17	Total (with CC)		16

Sophomore Year

Fall			Spring		
PHYS-243	Modern Physics	3	PHYS-245	Experimental Physics III	1
PHYS-281	Electricity/Electronics	3	PHYS-250	Mechanics	3
MATH-253	Calculus III	4	PHYS-246	Data Reduction and Error...	1
CS-157	Algorithms & Programming	3	ASTR-252	Astrophysics - Stars	3
			MATH-260/270	Linear Alg/Diff Equations	4
			MATH-264/270	Linear Alg/Diff Equations	6
Total		13	Total		12

Junior Year

Fall			Spring		
PHYS-345	Experimental Physics IV	1	PHYS-372	Electromagnetic Waves	3
PHYS-360	Thermal Physics	3	PHYS-440	Condensed Matter Physics	3
PHYS-371	Electromagnetic Waves	3	ASTR-221	Observational Astronomy	1
PHYS-381	Advanced Mechanics	3	ASTR-253	Astrophysics - Galaxies	3
MATH-434	Complex Variables	3	MATH-330	Partial Diff. Eq.	3
Total		13	Total		13

Senior Year

PHYS-421	Quantum Mechanics I	3	PHYS-422	Quantum Mechanics II	3
PHYS-445	Senior Research	1	PHYS-445	Senior Research	1
			PHYS-430	Nuclear Physics	3
			PHYS-430L	Nuclear Physics Lab	1
Total		4	Total		8