

## Physics Courses

Course Number	Course Name	Credit Hours	Prerequisites	Semester(s) Offered
PHYS 1710/1730	Mechanics + Laboratory	4	MATH 1710	Fall, Spring, S5W1
PHYS 2220/2240	Electricity & Magnetism + Lab	4	PHYS 1710/1730 and MATH 1720	Fall, Spring, S5W2
PHYS 3010/3030	Modern Physics + Laboratory	4	PHYS 1420 or 2220 and MATH 1710	Fall, Spring
PHYS 3210	Mechanics I	3	PHYS 2220 and MATH 2730	Fall only
PHYS 3310	Math Methods in Physical Sci.	3	PHYS 2220 and MATH 2730	Fall only
PHYS 3420	Electronics	4	PHYS 1420 or 2220 and MATH 1710	Spring only
PHYS 4110	Statistical & Thermal Physics	3	PHYS 3010	Spring only
PHYS 4210	Electricity & Magnetism	3	PHYS 2220 and MATH 2730	Fall only
PHYS 4310	Quantum Mechanics	3	PHYS 3010 and MATH 3410	Spring only
PHYS 4950	Physics Senior Thesis	3	Consent of supervising faculty member	Fall, Spring, Summer
PHYS 4955	Physics Senior Thesis Capstone	3	PHYS 4950 (may be taken concurrently) & consent of supervising faculty member	Fall, Spring, Summer
PHYS 4951	Honors College Capstone Thesis	3	See UNT Catalog for requirements	Fall, Spring, Summer
PHYS 3220	Mechanics II	3	PHYS 3210	UL Elective Rotation
PHYS 4150	Experimental Physics I	3	PHYS 3010/3030	UL Elective Rotation
PHYS 4160	Experimental Physics II	3	PHYS 3010/3030	UL Elective Rotation
PHYS 4170	Experimental Physics III	3	PHYS 3010/3030	UL Elective Rotation
PHYS 4220	E&M Waves	3	PHYS 4210	UL Elective Rotation
PHYS 4350	Advanced Modern Physics I – Atomic & Molecular	3	PHYS 4310	UL Elective Rotation
PHYS 4360	Advanced Modern Physics II – Nuclear & Particle	3	PHYS 4350	UL Elective Rotation
PHYS 4420	Physical Optics	3	PHYS 2220/2240	UL Elective Rotation
PHYS 4500	Introduction to Solid-State Physics	3	PHYS 3010/3030	UL Elective Rotation
PHYS 4520	Physics of Nano-scale Materials	3	PHYS 3010/3030	UL Elective Rotation
PHYS 4550	Modern Classical Dynamics	3	PHYS 3220	UL Elective Rotation
PHYS 4600	Computer Based Physics	3	PHYS 2220/2240	UL Elective Rotation
PHYS 4650	Introduction to Modern Astrophysics	3	PHYS 3010/3030	UL Elective Rotation
PHYS 4710	Foundations of Theoretical Physics	3	PHYS 4210, PHYS 4310, PHYS 4110 (may be taken concurrently)	UL Elective Rotation

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PHYS 4210	Electricity & Magnetism	3	PHYS 2220 and MATH 2730	Fall only
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PHYS 4150	Experimental Physics I	3	PHYS 3010/3030	UL Elective Rotation
PHYS 4160	Experimental Physics II	3	PHYS 3010/3030	UL Elective Rotation
PHYS 4170	Experimental Physics III	3	PHYS 3010/3030	UL Elective Rotation
PHYS 4220	E&M Waves	3	PHYS 4210	UL Elective Rotation
PHYS 4350	Advanced Modern Physics I – Atomic & Molecular	3	PHYS 4310	UL Elective Rotation
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