Important Information About Your Degree

- College of Science Admission Requirement: Students must demonstrate proficiency in College Algebra by placing into Math Level 2 or higher through the UNT Math Placement Exam (Not the same as TSI) OR completing College Algebra or higher with a grade of C or higher.
- UNT Double-Dip Course Policy (Best Selection): Courses shown in *italics* satisfy multiple degree program requirements. Students who do not take the Best Selection courses, will have to take additional courses to meet program requirements. Whether or not the course is taken to fulfill a specific university core category, all courses are required by the program to complete the degree. Electives may be required due to double-dipping.
- Hour and GPA Requirements for graduation/degree completion:
 BS in Physics with Engineering requires at least 120 hours, 42 advanced, 2.00 UNT GPA, 2.00 overall GPA, a minimum 2.50 GPA in all advanced science and mathematics courses
- Courses marked with an asterisk (*) require are grade of C or Higher.
- Courses in **bold** require prerequisites. **Prerequisites** are listed in the university catalog with the course description.
- An official degree audit is required for graduation; Students must meet with an academic advisor to request that their audit be made official. Students can review
 degree requirements by running their audit at http://degreeaudit.unt.edu/
- For major-specific career information, contact the Department of Department in the Physics Building 110 or at physics@unt.edu.
- For teaching certification courses and requirements, contact tnt@unt.edu.
- For assistance with TSI status or mandatory courses, contact <u>TSI@unt.edu</u>.
- · For additional program information visit https://cos.unt.edu/advising or contact the COS Advising Center at cosadvising@unt.edu.

			Notation Key	
			ogress/Pending Credit	? = Needs further evaluation
			n proof from an unofficial transcript or Student may need to provide additional	
		ar	n official score	information. (ex. a course syllabus)
Major Requirements			Univers	sity Core Requirements
Complete one of the following:				 take any course approved for the University Con ments; however, there are courses recommende
Option 1:				for students pursuing a Physics major
PHYS 1510* & 1530* – General Physics I with Calculus & Lab		4	Composition I*:	
PHYS 1520 & 1540 – General Physics II with Calculus & Lab		4	Composition II*:	
Option 2:			Math:	
PHYS 1710* & 1730* – Mechanics & Lab		4	Life & Physical Science:	
PHYS 2220 & 2240 – Electricity & Magnetism & Lab		4	Life & Physical Science:	
Option 3:			Creative Arts:	
PHYS 1410 & 1430 – General Physics I & Lab		4	Language, Philosophy & Culture:	
PHYS 1420* & 1440* – General Physics I & Lab		4	US History to 1865:	
PHYS 2220 & 2240 – Electricity & Magnetism & Lab		4	US History from 1865:	
All courses listed below are required for the degree			Federal Government:	
PHYS 3010* & 3030* – Modern Physics & Lab		4	Texas Government:	
PHYS 3210* – Mechanics		3	Social & Behavioral Sciences:	
PHYS 3310* – Mathematical Methods in Phys. Sciences		3	Component Area Option I:	
PHYS 3420* - Electronics		3	Component Area Option II	
PHYS 3510* – Physics, Computation & Software Applications		3		I University Requirements
PHYS 4110* – Statistical and Thermal Physics		3		anced electives are needed to meet university
PHYS 4210* – Electricity and Magnetism		3	requirem	ent of 36 advanced hours.
PHYS 4310* – Quantum Mechanics		3		
PHYS 4950* – Physics Senior Thesis		3		
PHYS 4955* – Senior Thesis Capstone		3		
Concentration in Engineering				
Complete 9 hours from the following with a C or higher				
EENG 2620* & 2621* – Signals and Systems & Lab		4		
EENG 2710* & 2711* – Digital Logic Design & Lab		4		
EENG 3710* – Computer Organization		3		
PHYS 4150* – Experimental Physics 1		3		
PHYS 4220* – Electromagnetic Waves		3		
PHYS 4250* – Advanced Photonics		3		
PHYS 4420* – Physical Optics		3		
PHYS 4500* – Intro. to Solid State Physics		3		
PHYS 4520* – Physics of Nanoscale Materials		3		
PHYS 4600* – Computer Based Physics		3		
Other Required Courses for Degree				
MATH 1710* – Calculus I		4		
MATH 1720* – Calculus II		3		
MATH 2700* – Linear Algebra and Vector Geometry		3		
MATH 2730* – Multivariable Calculus		3		
MATH 3410* – Differential Equations		3		
CHEM 1410* & 1430* – General Chemistry 1 & Lab CHEM 1420 & 1440 – General Chemistry 2 & Lab				
)	4		