



# UNTA/UNTS - PHYSICS CAREER PATHWAY MAP

✓	RECOMMENDED COURSE SEQUENCE	Core Area shown on page 2	SEMESTERS OFFERED	MY PLAN (Semester and Year)	CREDIT HOURS
<input type="checkbox"/>	1. CHEM 1411 Gen. Chemistry I	<a href="#">Core Science #</a>	F, Sp, Su		4
<input type="checkbox"/>	2. ENGL 1301 Comp I	<a href="#">Core Comm !</a>	F, Sp, Su		3
<input type="checkbox"/>	3. HIST 1301 US History I	<a href="#">Core History %</a>	F, Sp, Su		3
<input type="checkbox"/>	4. MATH 2412 Pre-Calculus **	<a href="#">Core Math @</a>	F, Sp, Su		4
<input type="checkbox"/>	5. SPCH 1315 Public Speaking	<a href="#">Core Comp 1 &amp;</a>	F, Sp, Su		3
					17 hours
<input type="checkbox"/>	6. MUSI 1306 OR ARTS 1301*	<a href="#">Core Arts +</a>	F, Sp, Su		3
<input type="checkbox"/>	7. ENGL 1302 OR ENGL 2311	<a href="#">Core Comm !</a>	F, Sp, Su		3
<input type="checkbox"/>	8. HIST 1302 US History II	<a href="#">Core History %</a>	F, Sp, Su		3
<input type="checkbox"/>	9. HIST 2321 OR PHIL 1301*	<a href="#">Core LP&amp;C \$</a>	F, Sp, Su		3
<input type="checkbox"/>	10. MATH 2413 Calculus I	<a href="#">Core Math @</a>	F, Sp, Su		4
					33 hours
<input type="checkbox"/>	11. COSC 1436 Programming I		F, Sp, Su		4
<input type="checkbox"/>	12. GOVT 2305 Federal Govt.	<a href="#">Core Govt ^</a>	F, Sp, Su		3
<input type="checkbox"/>	13. MATH 2414 Calculus II	<a href="#">Core Math @</a>	F, Sp		4
<input type="checkbox"/>	14. PHYS 2425 Univ. Physics I	<a href="#">Core Science #</a>	F, Sp		4
					48 hours
<input type="checkbox"/>	15. ECON 2301 OR PSYC 2301*	<a href="#">Core S&amp;B /</a>	F, Sp, Su		3
<input type="checkbox"/>	16. GOVT 2306 Texas Govt.	<a href="#">Core Govt ^</a>	F, Sp, Su		3
<input type="checkbox"/>	17. MATH 2415 Calculus III	<a href="#">Core Math @</a>	Sp		4
<input type="checkbox"/>	18. PHYS 2426 Univ. Physics II	<a href="#">Core Science #</a>	F, Sp		4
	*** ASSOCIATE OF SCIENCE DEGREE EARNED ***				62 hours
	NOTE: Check with the Office of Financial Aid as aid may not be available beyond degree completion and/or 60 hours.				
<input type="checkbox"/>	19. CHEM 1412 Gen. Chemistry II	<a href="#">Core Science #</a>	Sp, Su		4
<input type="checkbox"/>	20. MATH 2320 Differential Eq.		Su		3

## READ ALL NOTES CAREFULLY:

- a) Courses in **bold** have a pre-requisite (previous course required). [See Catalog](#)
- b) Courses in *italics* can be taken in any order.
- c) ENGL 1301 and the first MATH class may require a co-requisite and/or developmental course depending on TSI Scores.
- d) Refer to [KC Catalog](#) for Field of Study and Degree Requirements.

\* Refer to Core Curriculum and KC Catalog for all possible course options.

\*\* MATH 1314 is a pre-requisite for this course. Approval is needed to begin in MATH 2412.

## CAREER OPPORTUNITIES

Career Options: <https://www.aps.org/careers/index.cfm>  
Salary Information: [US Department of Labor](#)

## ADVANCED DEGREES/CREDENTIAL OPPORTUNITIES

Bachelor's Degree in Physics, Astronomy, Engineering, or Mathematics

## LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS:

Stephen F. Austin State University: <https://www.sfasu.edu/academics/colleges/sciences-math/physics-engineering-astronomy>  
University of Texas at Austin Department of Physics: <https://ph.utexas.edu/>  
American Institute of Physics: <https://www.aip.org/>  
American Physical Society: <https://www.aps.org/>

## CONTACT INFORMATION (Click link for [KC Digital Map](#))

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## Kilgore College Core Curriculum

### **! Communication (6 hours)**

[ENGL 1301 \(T\) - Composition I AND](#)

[ENGL 1302 \(T\) - Composition II OR](#)

[ENGL 2311 \(T\) - Technical and Business Writing](#)

### **@ Mathematics (3 hours)**

[MATH 1314 \(T\) - College Algebra](#)

[MATH 1316 - Plane Trigonometry](#)

[MATH 1324 \(T\) - Mathematics for Business and Social Sciences](#)

[MATH 1325 \(T\) - Calculus for Business and Social Sciences](#)

[MATH 1332 \(T\) - Contemporary Mathematics](#)

[MATH 1342 \(T\) - Elementary Statistical Methods](#)

[MATH 1350 \(T\) - Mathematics for Teachers I](#)

[MATH 2412 \(T\) - Pre-Calculus Math](#)

[MATH 2413 \(T\) - Calculus I](#)

[MATH 2414 \(T\) - Calculus II](#)

[MATH 2415 \(T\) - Calculus III](#)

### **# Life and Physical Sciences (6 hours)**

[BIOL 1406 \(T\) - Biology for Science Majors I](#)

[BIOL 1407 \(T\) - Biology for Science Majors II](#)

[BIOL 1408 \(T\) - Biology for Non-Science Majors I](#)

[BIOL 1409 \(T\) - Biology for Non-Science Majors II](#)

[BIOL 2401 \(T\) - Human Anatomy and Physiology I](#)

[BIOL 2402 \(T\) - Human Anatomy and Physiology II](#)

[BIOL 2404 \(T\) - Anatomy & Physiology](#)

[BIOL 2406 \(T\) - Environmental Biology](#)

[ENVR 1401 \(T\) - Environmental Science I](#)

[CHEM 1405 \(T\) - Introductory Chemistry I](#)

[CHEM 1406 \(T\) - Introductory Chemistry I \(allied health emphasis\)](#)

[CHEM 1411 \(T\) - General Chemistry I](#)

[CHEM 1412 \(T\) - General Chemistry II](#)

[GEOL 1301 \(T\) - Earth Sciences for Non-Science Majors I \(lecture only\)](#)

[GEOL 1403 \(T\) - Physical Geology](#)

[GEOL 1404 \(T\) - Historical Geology](#)

[GEOL 1405 \(T\) - Environmental Science](#)

[PHYS 1303 \(T\) - Stars and Galaxies \(lecture only\)](#)

[PHYS 1401 \(T\) - College Physics I](#)

[PHYS 1402 \(T\) - College Physics II](#)

[PHYS 1403](#)

[PHYS 1404 \(T\) - Solar System](#)

[PHYS 1405 \(T\) - Elementary Physics I](#)

[PHYS 2425 \(T\) - University Physics I](#)

[PHYS 2426 \(T\) - University Physics II](#)

### **\$ Language, Philosophy & Culture (3 hours)**

[ENGL 2322 \(T\) - British Literature I](#)

[ENGL 2323 \(T\) - British Literature II](#)

[ENGL 2326 \(T\) - American Literature](#)

[ENGL 2332 \(T\) - World Literature I](#)

[ENGL 2333 \(T\) - World Literature II](#)

[HIST 2311 \(T\) - Western Civilization I](#)

[HIST 2312 \(T\) - Western Civilization II](#)

[HIST 2321 \(T\) - World Civilizations I](#)

[HIST 2322 \(T\) - World Civilizations II](#)

[PHIL 1301 \(T\) - Introduction to Philosophy](#)

[PHIL 2306 \(T\) - Introduction to Ethics](#)

### **+ Creative Arts (3 hours)**

[ARTS 1301 \(T\) - Art Appreciation](#)

[ARTS 1303 \(T\) - Art History I](#)

[ARTS 1304 \(T\) - Art History II](#)

[DANC 2303 \(T\) - Dance Appreciation](#)

[DRAM 1310 \(T\) - Theatre Appreciation](#)

[DRAM 2362](#)

[DRAM 2366 \(T\) - Film Appreciation](#)

[MUSI 1306 \(T\) - Music Appreciation](#)

[MUSI 1307 \(T\) - Music Literature](#)

### **% American History (6 hours)**

[HIST 1301 \(T\) - United States History I](#)

[HIST 1302 \(T\) - United States History II](#)

### **^ Government/Political Science (6 hours)**

[GOVT 2305 \(T\) - Federal Government](#)

[GOVT 2306 \(T\) - Texas Government](#)

### **/ Social and Behavioral Sciences (3 hours)**

[ECON 2301 \(T\) - Principles of Macroeconomics](#)

[ECON 2302 \(T\) - Principles of Microeconomics](#)

[GEOG 1303 \(T\) - World Regional Geography](#)

[PSYC 2301 \(T\) - General Psychology](#)

[PSYC 2314 \(T\) - Lifespan Growth and Development](#)

[SOCI 1301 \(T\) - Introductory Sociology](#)

[SOCI 1306 \(T\) - Social Problems](#)

[TECA 1354 \(T\) - Child Growth and Development](#)

### **& Component Area Option 1 (3 hours)**

[SPCH 1315 \(T\) - Public Speaking](#)

[SPCH 1318 \(T\) - Interpersonal Communication](#)

### **< Component Area Option 2 (3 hours)**

Any additional course listed in the core curriculum above or [BCIS 1305](#) or [MATH 1351](#) or [EDUC 1300](#)