# UNTA/UNTS - PHYSICS
## CAREER PATHWAY MAP

<table>
<thead>
<tr>
<th>❑</th>
<th>RECOMMENDED COURSE SEQUENCE</th>
<th>Core Area shown on page 2</th>
<th>SEMESTERS OFFERED</th>
<th>MY PLAN (Semester and Year)</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td>1. CHEM 1411 Gen. Chemistry I</td>
<td>Core Science #</td>
<td>F, Sp, Su</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>☑</td>
<td>2. ENGL 1301 Comp I</td>
<td>Core Comm</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>☑</td>
<td>3. HIST 1301 US History I</td>
<td>Core History %</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>☑</td>
<td>4. MATH 2412 Pre-Calculus **</td>
<td>Core Math @</td>
<td>F, Sp, Su</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>☑</td>
<td>5. SPCH 1315 Public Speaking</td>
<td>Core Comp 1 &amp;</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>6. MUSI 1306 OR ARTS 1301*</td>
<td>Core Arts +</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>7. ENGL 1302 OR ENGL 2311</td>
<td>Core Comm</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>8. HIST 1302 US History II</td>
<td>Core History %</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>9. HIST 2321 OR PHIL 1301*</td>
<td>Core LP&amp;C $</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>10. MATH 2413 Calculus I</td>
<td>Core Math @</td>
<td>F, Sp, Su</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>17 hours</td>
</tr>
<tr>
<td></td>
<td>11. COSC 1436 Programming I</td>
<td></td>
<td>F, Sp, Su</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12. GOVT 2305 Federal Govt.</td>
<td>Core Govt ^</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>13. MATH 2414 Calculus II</td>
<td>Core Math @</td>
<td>F, Sp</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>14. PHYS 2425 Univ. Physics I</td>
<td>Core Science #</td>
<td>F, Sp</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>15. ECON 2301 OR PSYC 2301*</td>
<td>Core S&amp;B /</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16. GOVT 2306 Texas Govt.</td>
<td>Core Govt ^</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17. MATH 2415 Calculus III</td>
<td>Core Math @</td>
<td>Sp</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>18. PHYS 2426 Univ. Physics II</td>
<td>Core Science #</td>
<td>F, Sp</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>*** ASSOCIATE OF SCIENCE DEGREE EARNED ***</td>
</tr>
<tr>
<td></td>
<td>19. CHEM 1412 Gen. Chemistry II</td>
<td>Core Science #</td>
<td>Sp, Su</td>
<td></td>
<td>62 hours</td>
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<tr>
<td></td>
<td>20. MATH 2320 Differential Eq.</td>
<td></td>
<td>Su</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTE:** Check with the Office of Financial Aid as aid may not be available beyond degree completion and/or 60 hours.

### CAREER OPPORTUNITIES
Career Options: [https://www.aps.org/careers/index.cfm](https://www.aps.org/careers/index.cfm)
Salary Information: [US Department of Labor](https://www.bls.gov)

### 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](https://www.sfasu.edu/academics/colleges/sciences-math/physics-engineering-astronomy)
University of Texas at Austin Department of Physics: [https://ph.utexas.edu/](https://ph.utexas.edu/)
American Institute of Physics: [https://www.aip.org/](https://www.aip.org/)
American Physical Society: [https://www.aps.org/](https://www.aps.org/)

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  - 903-983-8646
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  - 903-983-8185
  - aknox@kilgore.edu
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  - rheinsohn@kilgore.edu

Revised March 2022
Kilgore College Core Curriculum

I 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

# 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

$ 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

% 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

& Component Area Option 1 (3 hours)
SPCH 1315 (T) - Public Speaking
SPCH 1318 (T) - Interpersonal Communication

/ 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 2 (3 hours)
Any additional course listed in the core curriculum above or
BCIS 1305 or MATH 1351 or EDUC 1300

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