### UNTA/UNTS - CHEMISTRY CAREER PATHWAY MAP

<table>
<thead>
<tr>
<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>1. ENGL 1301 Composition I</td>
<td>Core Comm !</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2. MATH 2412 Pre-Calculus</td>
<td>Core Math @</td>
<td>F, Sp</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>3. CHEM 1411 General Chemistry I</td>
<td>Core Science #</td>
<td>F, Sp</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>4. PHIL 1301, PHIL 2306, HIST 2311, or HIST 2321*</td>
<td>Core LP&amp;C $</td>
<td>F, Sp, Su</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>5. HIST 1301 United States History I</td>
<td>Core History %</td>
<td>F, Sp, Su</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6. GOVT 2305 Federal Government</td>
<td>Core Govt ^</td>
<td>F, Sp, Su</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>7. MATH 2413 Calculus I</td>
<td>Core Math @</td>
<td>F, Sp</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>8. MUSI 1306, ARTS 1301, or DRAM 2366*</td>
<td>Core Arts +</td>
<td>F, Sp, Su</td>
<td>3</td>
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<tr>
<td>9. ECON 2301, GEOG 1303, or SOCI 1301*</td>
<td>Core S&amp;B /</td>
<td>F, Sp, Su</td>
<td>3</td>
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<tr>
<td>10. CHEM 1412 General Chemistry II</td>
<td>Core Science #</td>
<td>F, Sp, Su</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>11. SPCH 1315 or SPCH 1318*</td>
<td>Core Comp 1 &amp;</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>12. ENGL 1302 Composition II**</td>
<td>Core Comm !</td>
<td>F, Sp</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>13. MATH 2414 Calculus II</td>
<td>Core Math @</td>
<td>F, Sp</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>14. PHYS 2425 University Physics I</td>
<td>Core Science #</td>
<td>F, Sp</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>15. GOVT 2306 Texas Government</td>
<td>Core Govt ^</td>
<td>F, Sp, Su</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>16. PHYS 2426 University Physics II</td>
<td>Core Comp 2 &lt;</td>
<td>F, Sp</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>17. BCIS 1305 or ECON 2302*</td>
<td>Core Arts +</td>
<td>F, Sp, Su</td>
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<td>3</td>
</tr>
<tr>
<td>18. HIST 1302 United States History II</td>
<td>Core History %</td>
<td>F, Sp, Su</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

** [Associate of Science DEGREE EARNED] ***

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

61 hours

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** CAREER OPPORTUNITIES**

Career Options: laboratory technician, quality control, quality assurance, laboratory manager, HAZMAT
Salary Information: https://www.payscale.com/research/US/Job=Chemist/Salary

** ADVANCED DEGREES/CREDENTIAL OPPORTUNITIES**

Bachelor of Science in Chemistry, Mathematics, Engineering, or Physics

**LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS:**

University of Texas as Tyler Department of Chemistry and Biochemistry: https://www.uttTyler.edu/chemistry/
American Chemical Society: https://www.acs.org/content/acs/en.html

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**CONTACT INFORMATION (Click link for KC Digital Map)**

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** 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.

** ENGL 2311 may be taken in place of ENGL 1302

***MATH 1314 (College Algebra) is a pre-requisite for this course. Approval is needed to begin in MATH 2412.**
## 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

### 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

### 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

### 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
- MUSI 1306 (T) - Music Appreciation
- MUSI 1307 (T) - Music Literature

### 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