



# CHEMISTRY CAREER PATHWAY MAP

| ✓                        | RECOMMENDED COURSE SEQUENCE  | SEMESTERS OFFERED | CREDIT HOURS |
|--------------------------|--|-------------------|--------------|
| <input type="checkbox"/> | 1. <i>ENGL 1301 Composition I</i>  | F, Sp, Su         | 3            |
| <input type="checkbox"/> | 2. <i>HIST 1301 US History I</i>   | F, Sp, Su         | 3            |
| <input type="checkbox"/> | 3. <b>MATH 2412 Pre-Calculus !</b>   | F, Sp, Su         | 4            |
| <input type="checkbox"/> | 4. <b>CHEM 1411 General Chemistry I</b>  | F, Sp, Su         | 4            |
| <input type="checkbox"/> | 5. <i>BCIS 1305 Business Computer Applications+</i>  | F, Sp, Su         | 3            |
|                          |  |                   | 17 hours     |
| <input type="checkbox"/> | 6. <b>ENGL 1302 Composition II**</b>   | F, Sp, Su         | 3            |
| <input type="checkbox"/> | 7. <i>HIST 1302 US History II</i>  | F, Sp, Su         | 3            |
| <input type="checkbox"/> | 8. <b>MATH 2413 Calculus I</b>   | F, Sp, Su         | 4            |
| <input type="checkbox"/> | 9. <b>CHEM 1412 General Chemistry II</b>   | Sp, Su            | 4            |
|                          |  |                   | 31 hours     |
| <input type="checkbox"/> | 10. <i>GOVT 2305 Federal Government</i>  | F, Sp, Su         | 3            |
| <input type="checkbox"/> | 11. <i>MUSI 1306 Music Appreciation*</i>   | F, Sp, Su         | 3            |
| <input type="checkbox"/> | 12. <i>PHIL Introduction to Philosophy*</i>  | F, Sp, Su         | 3            |
| <input type="checkbox"/> | 13. <b>PHYS 2425 University Physics I</b>  | F, Sp, Su         | 4            |
| <input type="checkbox"/> | 14. <b>MATH 2414 Calculus II</b>   | F, Sp             | 4            |
|                          |  |                   | 48 hours     |
| <input type="checkbox"/> | 15. <i>GOVT 2306 Texas Government</i>  | F, Sp, Su         | 3            |
| <input type="checkbox"/> | 16. <i>ECON 2301 Principles of Macroeconomics*</i>   | F, Sp, Su         | 3            |
| <input type="checkbox"/> | 17. <i>SPCH 1315 Public Speaking*</i>  | F, Sp, Su         | 3            |
| <input type="checkbox"/> | 18. <b>PHYS 2426 University Physics II</b>   | F, Sp, Su         | 4            |
| <input type="checkbox"/> | 19. <i>COSC 1336 Programming Fundamentals I</i>  | F, Sp, Su         | 3            |
|                          | *** ASSOCIATE OF SCIENCE DEGREE EARNED ***<br>NOTE: Check with the Office of Financial Aid as aid may not be available beyond degree completion and/or 60 hours. |                   | 64 hours     |

## READ ALL NOTES CAREFULLY:

- \* Refer to Core Curriculum and KC Catalog for all possible course options.
- + Computer Competency Requirement must be met in order to earn an AS Degree. [Click Here For Computer Competency Information](#)
- \*\* 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.
- a) Courses in **bold** have a pre-requisite (previous course required).
- 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 AS Degree Requirements.

## CAREER OPPORTUNITIES

Laboratory Technician, Quality Control, Quality Assurance, or Laboratory Manager

## ADVANCED DEGREE/CREDENTIAL OPPORTUNITIES

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

## LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS:

Stephen F. Austin State University Department of Chemistry and Biochemistry: <http://www.sfasu.edu/chemistry/>  
 University of Texas at Tyler Department of Chemistry and Biochemistry: <https://www.uttyler.edu/chemistry/>  
 University of North Texas Department of Chemistry: <https://chemistry.unt.edu/>  
 American Chemical Society: <https://www.acs.org/content/acs/en.html>

## CONTACT INFORMATION

Ronda Howe  
 Chair, Dept. of Chemistry and Geology  
 Room: CANTR 303  
 Phone: 903-983-8252  
 Email: [rhowe@kilgore.edu](mailto:rhowe@kilgore.edu)

Laura Mulanax  
 Advisor, Chemistry and Geology  
 Room: CANTR 208  
 Phone: 903-983-8184  
 E-mail: [lmulanax@kilgore.edu](mailto:lmulanax@kilgore.edu)

