



# PROCESS TECHNOLOGY 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. PTAC 1302 Introduction Process Technology                                               |                               | F, Su             |                             | 3            |
| <input type="checkbox"/>                                                                                           | 2. OSH 1320 Industrial Safety                                                              |                               | F, Sp             |                             | 3            |
| <input type="checkbox"/>                                                                                           | 3. 1343 <i>Technical Algebra &amp; Trigonometry</i> or MATH 1314 <i>College Algebra</i> ** |                               | F, Sp             |                             | 4            |
| <input type="checkbox"/>                                                                                           | 4. PHYS 1405 Elementary Physics I TECM **                                                  |                               | F, Sp             |                             | 3            |
|                                                                                                                    |                                                                                            |                               |                   |                             | 13 hours     |
| <input type="checkbox"/>                                                                                           | 5. CHEM 1405 <i>Introduction Chemistry I</i> or CHEM 1406 or CHEM 1407**                   | <a href="#">GE NS&amp;M @</a> | F, Sp, Su         |                             | 4            |
| <input type="checkbox"/>                                                                                           | 6. PTAC 1310 Process Technology I – Equipment                                              |                               | Sp, Su            |                             | 3            |
| <input type="checkbox"/>                                                                                           | 7. PTAC 1332 Process Instrumentation I                                                     |                               | Sp, Su            |                             | 3            |
| <input type="checkbox"/>                                                                                           | 8. ENGL 1301 <i>Composition I</i>                                                          | <a href="#">GE H&amp;FA !</a> | F, Sp, Su         |                             | 3            |
| <input type="checkbox"/>                                                                                           | 9. SPCH 1315 <i>Public Speaking</i> *                                                      | <a href="#">GE AC %</a>       | F, Sp, Su         |                             | 3            |
|                                                                                                                    |                                                                                            |                               |                   |                             | 29 hours     |
| <input type="checkbox"/>                                                                                           | 10. PTAC 2387 Internship (Outside Employment)                                              |                               | F, Sp, Su         |                             | 3            |
|                                                                                                                    |                                                                                            |                               |                   |                             |              |
| <input type="checkbox"/>                                                                                           | 11. SOCI 1301 <i>Introductory Sociology</i> *                                              | <a href="#">GE S&amp;B \$</a> | F, Sp, Su         |                             | 3            |
| <input type="checkbox"/>                                                                                           | 12. PTAC 2436 Process Instrumentation II                                                   |                               | F                 |                             | 4            |
| <input type="checkbox"/>                                                                                           | 13. PTAC 2420 Process Technology II - Systems                                              |                               | F                 |                             | 4            |
| <input type="checkbox"/>                                                                                           | 14. PTAC 2314 Principles of Quality                                                        |                               | F, Sp,            |                             | 3            |
|                                                                                                                    |                                                                                            |                               |                   |                             | 46 hours     |
| <input type="checkbox"/>                                                                                           | 15. ARTS 1301 <i>Art Appreciation</i> *                                                    | <a href="#">GE H&amp;FA !</a> | F, Sp, Su         |                             | 3            |
| <input type="checkbox"/>                                                                                           | 16. PTRT 2323 Natural gas Production                                                       |                               | Sp                |                             | 3            |
| <input type="checkbox"/>                                                                                           | 17. PTAC 2438 Process Tech III - Operations                                                |                               | Sp                |                             | 4            |
| <input type="checkbox"/>                                                                                           | 18. PTAC 2446 Process Troubleshooting                                                      |                               | Sp                |                             | 4            |
| *** ASSOCIATE OF APPLIED SCIENCE DEGREE EARNED***                                                                  |                                                                                            |                               |                   |                             | 60 hours     |
| NOTE: Check with the Office of Financial Aid as aid may not be available beyond degree completion and/or 60 hours. |                                                                                            |                               |                   |                             |              |

## 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.

\*\* [Required class for degree plan]

## CAREER OPPORTUNITIES

Chemical Manufacturing  
Water & Wastewater Treatment  
Power Generation  
Oil & Gas Industry  
Pharmaceuticals

## ADVANCED DEGREES/CREDENTIAL OPPORTUNITIES

University of Texas at Tyler, Bachelor of Applied Arts and Sciences (BAAS) In Industrial Technology

## LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS

<https://www.naptaonline.org/>

## Salary Information:

\$50,000- &60,000

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

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## Kilgore College Composite List of General Education Courses

### **I Humanities and Fine Arts**

[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 2361 - History of the Theatre I  
DRAM 2362 - History of the Theatre II  
[DRAM 2366 \(T\) - Film Appreciation](#)  
[ENGL 1302 \(T\) - Composition II](#)  
[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 1301 \(T\) - United States History I](#)  
[HIST 1302 \(T\) - United States History 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](#)  
[MUSI 1306 \(T\) - Music Appreciation](#)  
[PHIL 1301 \(T\) - Introduction to Philosophy](#)  
[PHIL 2306 \(T\) - Introduction to Ethics](#)

### **\$ Social and Behavioral Sciences**

[CRIJ 1301 \(T\) - Introduction to Criminal Justice](#)  
[ECON 2301 \(T\) - Principles of Macroeconomics](#)  
[ECON 2302 \(T\) - Principles of Microeconomics](#)  
[GEOG 1303 \(T\) - World Regional Geography](#)  
[GOVT 2305 \(T\) - Federal Government](#)  
[GOVT 2306 \(T\) - Texas Government](#)  
[HIST 1301 \(T\) - United States History I](#)  
[HIST 1302 \(T\) - United States History II](#)  
[PSYC 2301 \(T\) - General Psychology](#)  
[PSYC 2314 \(T\) - Lifespan Growth and Development](#)  
[SOCI 1301 \(T\) - Introductory Sociology](#)  
[SOCI 1306 \(T\) - Social Problems](#)  
[SOCI 2301 \(T\) - Marriage and the Family](#)  
[TECA 1354 \(T\) - Child Growth and Development](#)

### **@ Natural Sciences and Mathematics**

[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 2406 \(T\) - Environmental Biology](#)  
[CHEM 1405 \(T\) - Introductory Chemistry I \(lecture + lab\)](#)  
[CHEM 1406 \(T\) - Introductory Chemistry I \(lecture + lab, allied health emphasis\)](#)  
[CHEM 1411 \(T\) - General Chemistry I \(lecture + lab\)](#)  
[CHEM 1412 \(T\) - General Chemistry II \(lecture + lab\)](#)  
[ENVR 1401 \(T\) - Environmental Science I](#)  
[GEOL 1301 \(T\) - Earth Sciences for Non-Science Majors I \(lecture\)](#)  
[GEOL 1403 \(T\) - Physical Geology \(lecture + lab\)](#)  
[GEOL 1404 \(T\) - Historical Geology \(lecture + lab\)](#)  
[GEOL 1405 \(T\) - Environmental Science \(lecture + lab\)](#)  
[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 1351 \(T\) - Mathematics for Teachers II](#)  
[MATH 2412 \(T\) - Pre-Calculus Math](#)  
[MATH 2413 \(T\) - Calculus I](#)  
[MATH 2414 \(T\) - Calculus II](#)  
[MATH 2415 \(T\) - Calculus III](#)  
[PHYS 1303 \(T\) - Stars and Galaxies \(lecture\)](#)  
[PHYS 1401 \(T\) - College Physics I](#)  
[PHYS 1402 \(T\) - College Physics II](#)  
PHYS 1403 - Stars and Galaxies  
[PHYS 1404 \(T\) - Solar System](#)  
[PHYS 1405 \(T\) - Elementary Physics I](#)  
[PHYS 2425 \(T\) - University Physics I](#)  
[PHYS 2426 \(T\) - University Physics II](#)

### **% Additional Course**

An additional course from the lists above or [SPCH 1315](#) or [SPCH 1318](#) or [EDUC 1300](#) or [ENGL 2311](#) or [BCIS 1305](#)