



# SOFTWARE DEVELOPMENT/DATA ANALYTICS CAREER PATHWAY MAP

| ✓                                                                                                                  | RECOMMENDED COURSE SEQUENCE                  | GEN ED AREA<br>(shown on page 2) | SEMESTERS OFFERED | MY PLAN<br>(Semester and Year) | CREDIT HOURS |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------|--------------------------------|--------------|
| <input type="checkbox"/>                                                                                           | 1. ITSC1301 Intro to Computers               |                                  | F, SP             |                                | 3            |
| <input type="checkbox"/>                                                                                           | 2. ITSC1309 or BCIS1305                      |                                  | F, SP, SU         |                                | 3            |
| <input type="checkbox"/>                                                                                           | 3. MATH1314 or MATH1324                      | <a href="#">GE NS&amp;M @</a>    | F, SP, SU         |                                | 3            |
| <input type="checkbox"/>                                                                                           | 4. ITSY1342 Info Tech Security               |                                  | F, SP             |                                | 3            |
| <input type="checkbox"/>                                                                                           | 5. ITSE1359 Intro to Scripting Lang          |                                  | F, SP             |                                | 3            |
|                                                                                                                    |                                              |                                  |                   |                                | 15 hours     |
| <input type="checkbox"/>                                                                                           | 6. <b>COSC1436 Programming 1</b>             |                                  | F, SP             |                                | 4            |
| <input type="checkbox"/>                                                                                           | 7. ITSC1316 Linux Install & Config           |                                  | F, SP             |                                | 3            |
| <input type="checkbox"/>                                                                                           | 8. <b>ITSW2337 Adv Database</b>              |                                  | F, SP             |                                | 3            |
| <input type="checkbox"/>                                                                                           | 9. <b>COSC1437 Programming 2</b>             |                                  | F, SP             |                                | 4            |
| <input type="checkbox"/>                                                                                           | 10. <b>ITSC1315 IT Project Management</b>    |                                  | F, SP             |                                | 3            |
| *** SOFTWARE SUPPORT CERTIFICATE EARNED ***                                                                        |                                              |                                  |                   |                                | 32 hours     |
| <input type="checkbox"/>                                                                                           | 11. <b>ITSE2309 Database Programming</b>     |                                  | F                 |                                | 3            |
| <input type="checkbox"/>                                                                                           | 12. <i>ACNT1303 Intro Accounting I ***</i>   |                                  | F, SP             |                                | 3            |
| <input type="checkbox"/>                                                                                           | 13. <i>ENGL1301 Composition I</i>            |                                  | F, SP, SU         |                                | 3            |
| <input type="checkbox"/>                                                                                           | 14. <i>PHIL2306 Intro to Ethics *</i>        | <a href="#">GE H&amp;FA !</a>    | F, SP, SU         |                                | 3            |
| <input type="checkbox"/>                                                                                           | 15. <i>PSYC2301 General Psychology *</i>     | <a href="#">GE S&amp;B \$</a>    | F, SP, SU         |                                | 3            |
|                                                                                                                    |                                              |                                  |                   |                                | 47 hours     |
| <input type="checkbox"/>                                                                                           | 16. <b>ITSW2334 Adv Spreadsheets</b>         |                                  | SP                |                                | 3            |
| <input type="checkbox"/>                                                                                           | 17. <i>Statistics (MATH1342 or BUSI2305)</i> |                                  | F, SP, SU         |                                | 3            |
| <input type="checkbox"/>                                                                                           | 18. <b>ENGL2311 Tech &amp; Bus Writing</b>   | <a href="#">GE AC &amp;</a>      | F, SP, SU         |                                | 3            |
| <input type="checkbox"/>                                                                                           | 19. <b>INEW2430 Comp SW Project **</b>       |                                  | F, 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. |                                              |                                  |                   |                                |              |

## CAREER OPPORTUNITIES

Career Options: [Computer Programmers](#); [Data Analysts](#)

Salary Information: [Computer Programmers](#); [Data Analysts](#)

## ADVANCED DEGREES/CREDENTIAL OPPORTUNITIES

Bachelor of Applied Arts & Sciences

Certifications: [CompTIA IT Fundamentals \(ITF+\)](#), [CompTIA Linux+](#), [CompTIA Project+](#), [Certified Entry-Level Python Programmer \(PCEP\)](#), [MOS Excel](#), [CompTIA Data+](#)

## LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS:

University of Texas @ Tyler Bachelor of Applied Arts & Sciences: <https://www.uttyler.edu/baas/>

University of North Texas Bachelor of Applied Arts & Sciences: <https://baas.unt.edu/>

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

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## READ ALL NOTES CAREFULLY:

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

\* Refer to list of General Ed. Courses and KC Catalog for all possible options.

\*\* Students may take COSC2436 in place of INEW2430.

\*\*\*Students may take ACCT2301 in place of ACNT1303.

## Kilgore College Composite List of General Education Courses

### **! 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 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](#)