## SOFTWARE DEVELOPMENT/DATA ANALYTICS CAREER PATHWAY MAP  
### Spring Start

<table>
<thead>
<tr>
<th>RECOMMENDED COURSE SEQUENCE</th>
<th>GEN ED 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. MATH1314 or MATH1324</td>
<td>GE NS&amp;M @</td>
<td>F, SP, SU</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2. ITSC1316 Linux Install &amp; Config</td>
<td>SP, SU</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>3. ITSC1309 or BCIS1305</td>
<td>F, SP, SU</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>4. ITSY1342 Info Tech Security</td>
<td>F, SP</td>
<td></td>
<td></td>
<td>3</td>
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<tr>
<td>5. ITSC1319 Internet/Web Dev</td>
<td>SP</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>6. COSC1436 Programming 1</td>
<td>F, SP</td>
<td></td>
<td></td>
<td>4</td>
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<tr>
<td>7. ITSW2337 Adv Database</td>
<td>SP</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>8. COSC1437 Programming 2</td>
<td>F, SP</td>
<td></td>
<td></td>
<td>4</td>
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<tr>
<td>9. ITSC1315 IT Project Management</td>
<td>SP, SU</td>
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<td>3</td>
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<tr>
<td>10. ITSW2334 Adv Spreadsheets</td>
<td>SP</td>
<td></td>
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<td>3</td>
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**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: MOS Access, MOS Excel

### LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS:

University of Texas @ Tyler Bachelor of Applied Arts & Sciences: [https://www.utttyler.edu/baas/](https://www.utttyler.edu/baas/)  
University of North Texas Bachelor of Applied Arts & Sciences: [https://baas.unt.edu/](https://baas.unt.edu/)

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

<table>
<thead>
<tr>
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</thead>
<tbody>
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</tr>
</tbody>
</table>

* Revised September 2022
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

@ 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

$ 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

& Additional Course
An additional course from the lists above or SPCH 1315 or SPCH 1318 or EDUC 1300 or ENGL 2311 or BCIS 1305