



SOFTWARE DEVELOPMENT/DATA ANALYTICS CAREER PATHWAY MAP

✓	RECOMMENDED COURSE SEQUENCE	GEN ED AREA (shown on page 2)	SEMESTERS OFFERED	MY PLAN (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	GE NS&M @	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
					<i>15 hours</i>
<input type="checkbox"/>	6. COSC1436 Programming 1		F, SP		4
<input type="checkbox"/>	7. ITSC1316 Linux Install & Config		F, SP		3
<input type="checkbox"/>	8. ITSW2337 Adv Database		F, SP		3
<input type="checkbox"/>	9. COSC1437 Programming 2		F, SP		4
<input type="checkbox"/>	10. ITSC1315 IT Project Management		F, SP		3
	*** SOFTWARE SUPPORT CERTIFICATE EARNED ***				32 hours
<input type="checkbox"/>	11. ITSE2309 Database Programming		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>	GE H&FA !	F, SP, SU		3
<input type="checkbox"/>	15. <i>PSYC2301 General Psychology *</i>	GE S&B \$	F, SP, SU		3
					<i>47 hours</i>
<input type="checkbox"/>	16. ITSW2334 Adv Spreadsheets		SP		3
<input type="checkbox"/>	17. <i>Statistics (MATH1342 or BUSI2305)</i>		F, SP, SU		3
<input type="checkbox"/>	18. ENGL2311 Tech & Bus Writing	GE AC &	F, SP, SU		3
<input type="checkbox"/>	19. INEW2430 Comp SW Project **		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.				

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 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.

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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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](#)
[SOC1 1301 \(T\) - Introductory Sociology](#)
[SOC1 1306 \(T\) - Social Problems](#)
[SOC1 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](#)