



CIT – SOFTWARE DEVELOPMENT & DATA ANALYTICS CAREER PATHWAY MAP

✓	RECOMMENDED COURSE SEQUENCE	General Ed. Area shown on page 2	SEMESTERS OFFERED	MY PLAN (Semester and Year)	CREDIT HOURS
☐	1. ITSC1301 Intro to Computers		F, SP		3
☐	2. ITSC1309 Integrated SW Appl I +		F, SP, SU		3
☐	3. MATH1314 or MATH1324 **	GE NS&M @	F, SP, SU		3
☐	4. ITSY1342 Info Tech Security		F, SP		3
☐	5. ITSE1359 Scripting Lang (16 wks)		F, SP		3
					15 hours
☐	6. COSC1436 Programming 1		F, SP		4
☐	7. ITSC1316 Linux Install & Config		F, SP		3
☐	8. ITSW2337 Adv Database		F, SP		3
☐	9. COSC1437 Programming 2		F, SP		4
☐	10. ITSC1315 IT Proj Mgmt (16 wks)		F, SP		3
*** SOFTWARE SUPPORT CERTIFICATE EARNED ***					32 hours
☐	11. ITSE2309 Database Programming		F		3
☐	12. ACNT1303 or ACCT2301		F, SP, SU		3
☐	13. ENGL1301 Composition I		F, SP, SU		3
☐	14. PSYC2301 General Psychology *	GE S&B \$	F, SP, SU		3
					44 hours
☐	15. ITSW2334 Adv Spreadsheets		SP		3
☐	16. Statistics (MATH1342 or BUSI2305)		F, SP, SU		3
☐	17. ENGL2311 Tech & Bus Writing	GE AC %	F, SP, SU		3
☐	18. PHIL2306 Intro to Ethics *	GE H&FA !	F, SP, SU		3
☐	19. INEW2430 SW Proj (16 wks) ***		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 Tech+](#), [CompTIA Linux+](#), [CompTIA Project+](#), [Certified Entry-Level Python Programmer \(PCEP\)](#), [Certified Web and Mobile App Developer Apprentice \(CWMA-apprentice\)](#)

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](#))

Kilgore College Advisors
Email: advising@kilgore.edu
Webpage: [Academic Advising](#)

Mark Stephens
Assistant Professor, CIT
BLDG #24, Rm 103-A
903-983-8139
mstephens1@kilgore.edu

Dr. Ginger Dennis
Department Chair
BLDG #24, Rm 109
903-988-3722
gdennis@kilgore.edu



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 options.

** MATH1314 or MATH1324 MUST be taken before COSC1436.

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

+ BCIS1305 may be taken instead of ITSC1309.

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 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 1309 \(T\) - Biology for Non-Science Majors II \(lecture\)](#)
[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](#)

% Additional Course

An additional course from the lists above or one of the following:

[SPCH 1315](#) or [SPCH 1318](#) or [EDUC 1300](#) or [ENGL 2311](#) or [BCIS 1305](#)