



COMPUTER SCIENCE - TRANSFER 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. COSC 1436 Programming I | | F, SP, SU | | 4 |
| <input type="checkbox"/> | 2. MATH 2413 Calculus I ** | Core Math @ | F, SP, SU | | 4 |
| <input type="checkbox"/> | 3. <i>ENGL 1301 Composition I</i> | Core Comm ! | F, SP, SU | | 3 |
| <input type="checkbox"/> | 4. <i>HIST 1301 US History I</i> | Core History % | F, SP, SU | | 3 |
| | | | | | 14 hours |
| <input type="checkbox"/> | 5. COSC 1437 Programming II | | F, SP | | 4 |
| <input type="checkbox"/> | 6. MATH 2414 Calculus II | Core Math @ | F, SP, SU | | 4 |
| <input type="checkbox"/> | 7. <i>CHEM 1411 Gen Chemistry I *</i> | Core Science # | F, SP, SU | | 4 |
| <input type="checkbox"/> | 8. <i>HIST 1302 US History II</i> | Core History % | F, SP, SU | | 3 |
| | | | | | 29 hours |
| <input type="checkbox"/> | 9. COSC 2436 Programming III | | F | | 4 |
| <input type="checkbox"/> | 10. PHYS 2425 University Physics I * | Core Science # | F, SP, SU | | 4 |
| <input type="checkbox"/> | 11. ENGL 1302 Composition II * | Core Comm ! | F, SP, SU | | 3 |
| <input type="checkbox"/> | 12. <i>GOVT 2305 Federal Government</i> | Core Govt ^ | F, SP, SU | | 3 |
| <input type="checkbox"/> | 13. <i>PHIL 1301 Intro to Philosophy *</i> | Core LP&C \$ | F, SP, SU | | 3 |
| | | | | | 46 hours |
| <input type="checkbox"/> | 14. PHYS 2426 University Physics II * | Core Science # | F, SP, SU | | 4 |
| <input type="checkbox"/> | 15. <i>GOVT 2306 Texas Government</i> | Core Govt ^ | F, SP, SU | | 3 |
| <input type="checkbox"/> | 16. <i>PSYC 2301 General Psychology *</i> | Core S&B / | F, SP, SU | | 3 |
| <input type="checkbox"/> | 17. <i>SPCH 1315 Public Speaking *</i> | Core Comp 1 & | F, SP, SU | | 3 |
| <input type="checkbox"/> | 18. <i>MUSI 1306 Music Appreciation *</i> | Core Arts + | F, SP, SU | | 3 |
| | *** ASSOCIATE OF SCIENCE DEGREE EARNED *** | | | | 62 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.

** MATH 1314 and MATH 2412 are pre-requisites for MATH 2413. Approval is needed to begin in MATH 2412.

CAREER OPPORTUNITIES

Career Options: [Computer and Information Technology Occupations](#)

Salary Information: [Salary for Bachelor's Degree, Computer Science Degree](#)

ADVANCED DEGREES/CREDENTIAL OPPORTUNITIES

Bachelor's Degree in Computer Science / Master's Degree in Computer Science

LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS

University of Texas @ Tyler: <https://www.uttyler.edu/computer-science/>

University of North Texas: <https://computerscience.engineering.unt.edu/degrees/bs-computer-science>

Stephen F. Austin State University: <https://www.sfasu.edu/academics/colleges/sciences-math/computer-science>

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

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Kilgore College Core Curriculum

! Communication (6 hours)

[ENGL 1301 \(T\) - Composition I AND](#)
[ENGL 1302 \(T\) - Composition II OR](#)
[ENGL 2311 \(T\) - Technical and Business Writing](#)

@ Mathematics (3 hours)

[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 2412 \(T\) - Pre-Calculus Math](#)
[MATH 2413 \(T\) - Calculus I](#)
[MATH 2414 \(T\) - Calculus II](#)
[MATH 2415 \(T\) - Calculus III](#)

Life and Physical Sciences (6 hours)

[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 2404 \(T\) - Anatomy & Physiology](#)
[BIOL 2406 \(T\) - Environmental Biology](#)
[ENVR 1401 \(T\) - Environmental Science I](#)
[CHEM 1405 \(T\) - Introductory Chemistry I](#)
[CHEM 1406 \(T\) - Introductory Chemistry I \(allied health emphasis\)](#)
[CHEM 1411 \(T\) - General Chemistry I](#)
[CHEM 1412 \(T\) - General Chemistry II](#)

[GEOL 1301 \(T\) - Earth Sciences for Non-Science Majors I \(lecture only\)](#)
[GEOL 1403 \(T\) - Physical Geology](#)
[GEOL 1404 \(T\) - Historical Geology](#)
[GEOL 1405 \(T\) - Environmental Science](#)
[PHYS 1303 \(T\) - Stars and Galaxies \(lecture only\)](#)
[PHYS 1401 \(T\) - College Physics I](#)
[PHYS 1402 \(T\) - College Physics II](#)
[PHYS 1403](#)
[PHYS 1404 \(T\) - Solar System](#)
[PHYS 1405 \(T\) - Elementary Physics I](#)
[PHYS 2425 \(T\) - University Physics I](#)
[PHYS 2426 \(T\) - University Physics II](#)

\$ Language, Philosophy & Culture (3 hours)

[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](#)
[PHIL 1301 \(T\) - Introduction to Philosophy](#)
[PHIL 2306 \(T\) - Introduction to Ethics](#)

+ Creative Arts (3 hours)

[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 2362](#)
[DRAM 2366 \(T\) - Film Appreciation](#)
[MUSI 1306 \(T\) - Music Appreciation](#)
[MUSI 1307 \(T\) - Music Literature](#)

% American History (6 hours)

[HIST 1301 \(T\) - United States History I](#)
[HIST 1302 \(T\) - United States History II](#)

^ Government/Political Science (6 hours)

[GOVT 2305 \(T\) - Federal Government](#)
[GOVT 2306 \(T\) - Texas Government](#)

& Component Area Option 1 (3 hours)

[SPCH 1315 \(T\) - Public Speaking](#)
[SPCH 1318 \(T\) - Interpersonal Communication](#)

/ Social and Behavioral Sciences (3 hours)

[ECON 2301 \(T\) - Principles of Macroeconomics](#)
[ECON 2302 \(T\) - Principles of Microeconomics](#)
[GEOG 1303 \(T\) - World Regional Geography](#)
[PSYC 2301 \(T\) - General Psychology](#)
[PSYC 2314 \(T\) - Lifespan Growth and Development](#)
[SOC1 1301 \(T\) - Introductory Sociology](#)
[SOC1 1306 \(T\) - Social Problems](#)
[TECA 1354 \(T\) - Child Growth and Development](#)

< Component Area Option 2 (3 hours)

Any additional course listed in the core curriculum above or [BCIS 1305](#) or [MATH 1351](#) or [EDUC 1300](#)