



COMPUTER SCIENCE – TRANSFER CAREER PATHWAY MAP

✓	RECOMMENDED COURSE SEQUENCE	Core Area shown on page 2	SEMESTERS OFFERED	MY PLAN (Semester and Year)	CREDIT HOURS
<input type="checkbox"/>	1. COSC 1436 Programming I		F, SP		4
	2. MATH 2412 Pre-Calculus Math**	Core Math @	F, SP		4
<input type="checkbox"/>	3. ENGL 1301 Composition I	Core Comm !	F, SP, SU		3
<input type="checkbox"/>	4. HIST 1301 US History I	Core History %	F, SP, SU		3
<input type="checkbox"/>	5. MUSI 1306 Music Appreciation *	Core Arts +	F, SP, SU		3
					17 hours
<input type="checkbox"/>	6. COSC 1437 Programming II		F, SP		4
<input type="checkbox"/>	7. MATH 2413 Calculus I	Core Comp 2 <	F, SP		4
<input type="checkbox"/>	8. ENGL 1302 Composition II *	Core Comm !	F, SP, SU		3
<input type="checkbox"/>	9. HIST 1302 US History II	Core History %	F, SP, SU		3
<input type="checkbox"/>	10. CHEM 1411 Gen Chemistry I *	Core Science #	F, SP, SU		4
					35 hours
<input type="checkbox"/>	11. COSC 2436 Programming III ***		F		4
<input type="checkbox"/>	12. MATH 2414 Calculus II	Core Comp 2 <	F, SP		4
<input type="checkbox"/>	13. PHYS 2425 University Physics I *	Core Science #	F, SP, SU		4
<input type="checkbox"/>	14. GOVT 2305 Federal Government	Core Govt ^	F, SP, SU		3
					50 hours
<input type="checkbox"/>	15. PHYS 2426 University Physics II *		F, SP, SU		4
<input type="checkbox"/>	16. GOVT 2306 Texas Government	Core Govt ^	F, SP, SU		3
<input type="checkbox"/>	17. PSYC 2301 General Psychology *	Core S&B /	F, SP, SU		3
<input type="checkbox"/>	18. PHIL 1301 Intro to Philosophy *	Core LP&C \$	F, SP, SU		3
<input type="checkbox"/>	19. SPCH 1315 Public Speaking *	Core Comp 1 &	F, SP, SU		3
	*** ASSOCIATE OF SCIENCE DEGREE EARNED ***				66 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.

** Depending on student's math preparation, student may be required to take MATH 1314 before MATH 2412.

*** COSC2436 may be omitted and still meet requirements for AS degree.

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](#)

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 1309 \(T\) - Biology for Non-Science Majors II \(Lecture\)](#)
[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 \(lecture + lab\)](#)
[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 \(lecture + lab\)](#)
[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 \(lecture + lab\)](#)
[PHYS 1303 \(T\) - Stars and Galaxies \(lecture\)](#)
[PHYS 1401 \(T\) - College Physics I](#)
[PHYS 1402 \(T\) - College Physics II](#)
[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 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 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](#)

/ 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](#)
[SOCL 1301 \(T\) - Introduction to Sociology](#)
[SOCL 1306 \(T\) - Social Problems](#)
[TECA 1354 \(T\) - Child Growth and Development](#)

^ 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](#)

< Component Area Option 2 (3 hours)

Any additional course listed in the core curriculum above or [MATH 2414](#) , [MATH 2415](#) , [MATH 1351](#) , [BCIS 1305](#) or [EDUC 1300](#).