



UNTA/UNTS - MATHEMATICS CAREER PATHWAY MAP

✓	RECOMMENDED COURSE SEQUENCE	Core Area shown on page 2	SEMESTERS OFFERED	MY PLAN (Semester and Year)	CREDIT HOURS
☐	1. CHEM 1411 Gen. Chemistry I	Core Science #	F, Sp, Su		4
☐	2. ENGL 1301 Comp I	Core Comm !	F, Sp, Su		3
☐	3. HIST 1301 US History I	Core History %	F, Sp, Su		3
☐	4. MATH 2412 Pre-Calculus **	Core Math @	F, Sp, Su		4
					14 hours
☐	5. ENGL 1302 OR ENGL 2311	Core Comm !	F, Sp, Su		3
☐	6. HIST 1302 US History II	Core History %	F, Sp, Su		3
☐	7. PHIL 2306 OR PHIL 1301*	Core LP&C \$	F, Sp, Su		3
☐	8. MATH 2413 Calculus I	Core Math @	F, Sp, Su		4
☐	9. SPCH 1315 Public Speaking	Core Comp 1 &	F, Sp, Su		3
					30 hours
☐	10. COSC 1436 Programming I ***		F, Sp, Su		4
☐	11. GOVT 2305 Federal Govt.	Core Govt ^	F, Sp, Su		3
☐	12. MATH 2414 Calculus II	Core Math @	F, Sp		4
☐	13. MUSI 1306 OR ARTS 1301*	Core Arts +	F, Sp, Su		3
☐	14. PHYS 2425 Univ. Physics I	Core Science #	F, Sp, Su		4
					48 hours
☐	15. ECON 2301 OR PSYC 2301*	Core S&B /	F, Sp, Su		3
☐	16. GOVT 2306 Texas Govt.	Core Govt ^	F, Sp, Su		3
☐	17. MATH 2415 Calculus III	Core Math @	Sp		4
☐	18. PHYS 2426 Univ. Physics II	Core Science #	F, Sp, Su		4
*** 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.					
☐	19. MATH 2320 Differential Eq. ***		Su		3
☐	20. MATH 2305 Discrete Math ***		F, Sp		3

CAREER OPPORTUNITIES

Career Options: <http://www.ams.org/profession/career-info/career-index>

Salary Information: <https://www.payscale.com/college-salary-report/common-jobs-for-majors/math>

ADVANCED DEGREES/CREDENTIAL OPPORTUNITIES

Bachelor's Degree in Mathematics, Engineering, or Physics

LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS:

Stephen F. Austin State University Department of Mathematics and Statistics:

<https://www.sfasu.edu/academics/colleges/sciences-math/math-stats>

University of Texas at Tyler Department of Mathematics: <https://www.uttyler.edu/math/>

Mathematical Association of America: <https://www.maa.org/>

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

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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 is a pre-requisite for this course. Approval is needed to begin in MATH 2412.

*** MATH 2320 or MATH 2305 can be taken in place of COSC 1436

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](#)

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

& 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 [BCIS 1305](#) or [MATH 1351](#) or [EDUC 1300](#)