# MATHEMATICS
## Associate of Science

This is a recommended academic map for students who seek an Associate of Science degree with a concentration in Mathematics or plan to pursue a baccalaureate degree in Mathematics at a four-year institution of higher education in Texas. Students planning to transfer to a four-year institution should confirm transferability of courses to meet degree requirements from the institution to which they plan to attend.

College Readiness Courses (if needed)
Pre-requisite may be required for MATH 2413 Calculus I

| Semester I | |
| --- | --- |
| ENGL 1301 | Composition I (Core 010) |
| MATH 2413 | Calculus I (Core 020) |
| HIST 1301 | United States History I (Core 060) |
| Social & Behavioral Science (Core 080) | |
| Creative Arts (Core 050) | |

| Semester II | |
| --- | --- |
| ENGL 1302 | Composition II (Core 010) |
| HIST 1302 | United States History II (Core 060) |
| MATH 2414 | Calculus II (Core 090) |
| PHYS 2425 | University Physics I (Core 030) |

| Semester III | |
| --- | --- |
| MATH 2415 | Calculus III* |
| MATH 2318 | Linear Algebra* |
| GOVT 2305 | Federal Government (Core 070) |
| Life & Physical Science with Lab (Core 030) | |

| Semester IV | |
| --- | --- |
| MATH 2320 | Differential Equations* |
| Language, Philosophy, & Culture (Core 040) | |
| GOVT 2306 | Texas Government (Core 070) |
| Transfer Elective* | |
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**\*Transfer Electives**

**Students who plan to pursue a baccalaureate degree should seek advising from the institution to which they intend to transfer.**

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| COSC 1436 | Programming Fundamentals I |
| COSC 1437 | Programming Fundamentals II |
| COSC 2426 | Programming Fundamentals III |
| COSC 2425 | Computer Organization |
| ENGR 1201 | Introduction to Engineering |
| ENGR 2304 | Programming for Engineers |
| MATH 2318 | Linear Algebra |
| MATH 2320 | Differential Equations |
| MATH 2415 | Calculus III |

**Total Semester Hours – 60**

*Courses are suggested electives that will contribute to AS degree requirements. Different electives may be chosen, but must be selected form the academic rather than the technical courses, as indicated in the course descriptions.