

ENGINEERING

Associate of Science

This is a recommended academic map for students who seek an Associate of Science degree with a concentration in Engineering or plan to pursue a baccalaureate degree in Engineering 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)
 ENGR 1201 Introduction to Engineering*
 CHEM 1411 General Chemistry I*

Semester II

ENGL 1302 Composition II (Core 010)
 MATH 2414 Calculus II (Core 090)
 ENGR 2304 Programming for Engineers* **or**
 Transfer Elective*
 HIST 1302 United States History II (Core 060)
 PHYS 2425 University Physics I (Core 030)

Semester III

Language, Philosophy, & Culture (Core 040)
 GOVT 2305 Federal Government (Core 070)
 MATH 2415 Calculus III* **or**
 Transfer Elective*¹
 PHYS 2426 University Physics II (Core 030)
 Transfer Elective*

Semester IV

GOVT 2306 Texas Government (Core 070)
 Social & Behavioral Science (Core 080)
 Creative Arts (Core 050)
 Transfer Elective*

*Transfer Electives

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

CHEM 1411 General Chemistry I
 CHEM 1412 General Chemistry II
 CHEM 2423 Organic Chemistry I
 CHEM 2425 Organic Chemistry II
 ENGR 1201 Introduction to Engineering
 ENGR 2301 Engineering Mechanics – Statics
 ENGR 2302 Engineering Mechanics – Dynamics
 ENGR 2304 Programming for Engineers
 MATH 2320 Differential Equations
 MATH 2415 Calculus III

¹Select one course from any of the following:
 AGRI, BIOL, CHEM, COSC, CRIJ, ENGR, GEOL,
 MATH, PHED (3SCH), PHYS

Total Semester Hours – 60

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