

**Engineering**  
**Associate of Science Degree**  
**Chemical / Biomedical Emphasis**

The Associate of Science in Engineering is intended to match closely the curriculum of the first two years of study in most university engineering programs.

To receive an Associate of Science in Engineering, students must: (a) make a minimum grade of C in all required math and science courses and (b) have an overall GPA of 2.0 or greater.

<b>Semester I</b>		<b>Credit Hours</b>
EDUC 1100	<u>Effective Learning: Strategies for College Success</u> <sup>1</sup>	1
+ MATH 2413	<u>Calculus I</u> <sup>2</sup>	4
+ ENGL 1301	English Composition I	3
+ ENGR 1201	Introduction to Engineering	2
+ CHEM 1311	General Chemistry I - Lecture	3
+ CHEM 1111	General Chemistry I - Lab	1
		14
<b>Semester II</b>		
+ MATH 2414	Calculus II	4
+ PHYS 2425	<u>Engineering Physics I</u> <sup>3</sup>	4
+ ENGL 1302	English Composition II <sup>13</sup>	3
HIST 1301	<u>United States History I</u> <sup>4</sup>	3
ARTS 1303	<u>Art History I</u> <sup>5</sup>	3
		17
<b>Semester III</b>		
+ CHEM 1312	General Chemistry II - Lecture	3
+ CHEM 1112	General Chemistry II - Lab	1
+ MATH 2415	<u>Calculus III</u> <sup>7</sup>	4
+ PHYS 2426	<u>Engineering Physics II</u> <sup>8</sup>	4
GOVT 2305	United States Government	3
		15
<b>Semester IV</b>		
HIST 1302	<u>United States History II</u> <sup>9</sup>	3
PHIL 2306	<u>Ethics</u> <sup>10</sup>	3
ECON 2301	<u>Principles of Macroeconomics</u> <sup>11</sup>	3
GOVT 2306	Texas State and Local Government	3
+ CHEM 2323	General Chemistry II - Lecture	3
+ CHEM 2123	General Chemistry II - Lab	1
		16
<b>TOTALS</b>		62

<sup>†</sup>Prerequisites: See Course Descriptions

<sup>1</sup>All first time Austin Community College (ACC) students with fewer than 12 SCH of successful college credit must take EDUC 1300 in their first semester at ACC. All other students may select either EDUC 1300 or a SPCH course from the Component Area Option List of courses in the Core Curriculum Course List. See an advisor or a full-time faculty member in Engineering for more information.

<sup>2</sup>Students should consult with a full time mathematics instructor since one or more mathematics courses may be required before enrolling in MATH 2413.

<sup>3</sup>Students lacking one full year of (recent) high school physics should take PHYS 1401 before taking PHYS 2425. All students must complete MATH 2413 before enrolling in PHYS 2425.

<sup>4</sup>Select from the following courses: HIST 1301, HIST 2301, HIST 2327, or HIST 2381. HIST 2301 and HIST 2381 may only be taken once.

<sup>5</sup>Or choose a course from the Creative Arts section of the Core Curriculum Course List. Check with prospective transfer institutions for transferability.

<sup>7</sup>MATH 2420 is no longer required for the degree; however, it is strongly recommended.

<sup>8</sup>Credit for PHYS 2425 and credit for MATH 2414 are strictly required prerequisites for PHYS 2426.

<sup>9</sup>Select from the following courses: HIST 1302, HIST 2301, HIST 2327, or HIST 2381. HIST 2301 and HIST 2381 may only be taken once.

<sup>10</sup>Or choose a course from the Component Area Option section of the Core Curriculum Course List. Check with prospective transfer institutions for transferability.

<sup>11</sup>Or choose a course from the Social and Behavioral section of the Core Curriculum Course List. Check with prospective transfer institutions for transferability.

<sup>13</sup>You may also select ENGL 2311 to fulfil this requirement for the AS degree. Check with your transfer institution to see if they accept your choice.