

# Process Technology (CIP 41.0301)

**281-756-3785**

## Associate of Applied Science Degree Program (A.A.S.)

**Purpose:** The Process Technology associate level program offers students core courses related to Process Operations that will prepare them to become process technicians in the refining, petrochemical, power generation, oil and gas production, food, and other process industries. Technical knowledge and skills will be gained in areas such as operating equipment, instrumentation systems, process systems, process troubleshooting and computer applications. The associate program will take four semesters to complete. Graduates from the program will be prepared for entry level employment as process technicians.

**Program Requirements:** In addition to the general requirements for admission to ACC, entry into the Process Technology program requires basic proficiency in English, Reading, and Math.

<i>Course Number</i>	<i>Course Title</i>	<i>Credits</i>
<b>FIRST YEAR</b>		
<b>First Semester (Fall)</b>		
+ ENGL 1301	Composition I	3
+ MATH 1314 or	College Algebra or	
+ MATH 1332	Contemporary Mathematics (Quantitative Reasoning)	3
PTAC 1302	Introduction to Process Technology	3
PTAC 1308	Safety, Health, and Environment	<u>3</u>
		<b>12</b>
<b>Second Semester (Spring)</b>		
<sup>P</sup> PTAC 1310	Process Technology I (Equipment)	3
<sup>P</sup> PTAC 1332	Process Instrumentation I	3
SCIT 1414	Applied General Chemistry	4
+ Social & Behavioral Sciences	Select from Social & Behavioral Science Core Curriculum	<u>3</u>
		<b>13</b>
<b>Third Semester (Summer)</b>		
+ Creative Arts or	Select from Creative Arts Core Curriculum or	3
+ Language, Philosophy & Culture	Select from Language, Philosophy & Culture Core Curriculum	
CTEC 1401	Applied Petrochemical Technology (Physics)	4
<sup>P</sup> PTAC 2420	Process Technology II (Systems)	4
<sup>P</sup> PTAC 2436	Process Instrumentation II	<u>4</u>
		<b>15</b>
<b>SECOND YEAR</b>		
<b>First Semester (Fall)</b>		
<sup>P</sup> PTAC 1354 or	Industrial Processes or	3
** CTEC 2380	Cooperative Ed - Process Technology	
PTAC 2314	Quality, Statistical Process Control & Economics	3
> <sup>P</sup> *PTAC 2438	Process Technology III (Operations)	4
<sup>P</sup> PTAC 2446	Process Troubleshooting	<u>4</u>
		<b>14</b>
<b>Second Semester (Spring)</b>		
+ SPCH 1315 or	Public Speaking or	3
+ SPCH 1318	Interpersonal Communications	
TECM 1303	Technical Calculations	<u>3</u>
		<b>6</b>
Total Credits Required for A.A.S. Process Technology Degree .....		<b>60</b>

+ Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.

> Capstone Course - Can not be substituted.

\* Requires Department Chair approval.

<sup>P</sup> Denotes a series of Pre-Requisite Process Technology Courses.

A grade of "C" or higher is required in PTAC core courses to advance to the next level.