

Process Technology Degree

281-756-3785

Degree: Associate Degree of Applied Science (A.A.S.)

Length: Four Semester (Two Year) Program

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.

Associate of Applied Science Degree Program

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
FIRST YEAR				
First Semester				
COSC 1401	Microcomputer Applications	3	3	4
CTEC 1401	Applied Petrochemical Technology (Physics)	3	2	4
PTAC 1302	Introduction to Process Technology	2	2	3
SOCI 1301	Introductory Sociology	3	0	3
**PHED	Physical Activity	0	3	1
MATH 1332 or	Contemporary Mathematics I or			
MATH 1314 or	College Algebra or			
MATH 1333	Contemporary Math for Tech	<u>3</u>	<u>0</u>	<u>3</u>
		14	10	18
Second Semester				
ENGL 1301	Composition I	3	0	3
PTAC 1308	Safety, Health & Environment I	3	1	3
PTAC 1332	Process Instrumentation I	2	2	3
PTAC 1410	Process Technology I (Equipment)	3	2	4
SCIT 1414	Applied General Chemistry I	3	3	4
**PHED	Physical Activity	<u>0</u>	<u>3</u>	<u>1</u>
		14	11	18
SECOND YEAR				
First Semester				
BMGT 2303	Problem Solving and Decision Making	3	0	3
PTAC 2314	Quality, Statistical Process Control & Economics	2	2	3
PTAC 2420	Process Technology II (Systems)	3	2	4
PTAC 2436	Process Instrumentation II	3	2	4
SPCH 1318	Interpersonal Communications	<u>3</u>	<u>0</u>	<u>3</u>
		14	6	17
Second Semester				
ENGL 1312	Business Writing	3	0	3
PTAC 1454 or	Industrial Processes or	1/3	2/21	4
CTEC 2480	Cooperative Education-Process Technology			
*PTAC 2438	Process Technology III (Operations)	3	2	4
PTAC 2446	Process Troubleshooting	3	2	4
Elective	Visual & Performing Arts/Humanities Core	<u>3</u>	<u>0</u>	<u>3</u>
		13/15	6/25	18

*Capstone Course

**Both PHED courses can be substituted with PSYC 1300 Learning Strategies.

Total Credits Required for A.A.S. Process Technology Degree 71

Educational Programs

Process Technology Certificate Program

Length: Three Semesters

Purpose: The Process Technology certificate level program is designed to prepare students for entry level trainee jobs in the process industries. Time for completion is one-and-one-half years.

Program Requirements: A certificate student will take the following curriculum to achieve the certificate in Process Technology.

<i>Course Number</i>	<i>Course Title</i>	<i>Lecture Hours</i>	<i>Lab Hours</i>	<i>Credits</i>
First Semester				
COSC 1401	Microcomputer Applications	3	3	4
CTEC 1401	Applied Petrochemical Technology (Physics)	3	2	4
PTAC 1302	Introduction to Process Technology	2	2	3
SOCI 1301	Introductory Sociology	3	0	3
MATH 1332 or	Contemporary Mathematics I or			
MATH 1314 or	College Algebra or			
MATH 1333	Contemporary Math for Tech	<u>3</u>	<u>0</u>	<u>3</u>
		14	7	17
Second Semester				
BMGT 2303	Problem Solving and Decision Making	3	0	3
ENGL 1301	Composition I	3	0	3
PTAC 1410	Process Technology I (Equipment)	3	2	4
SCIT 1414	Applied General Chemistry I	<u>3</u>	<u>3</u>	<u>4</u>
		12	5	14
Third Semester				
ENGL 1312	Business Writing	3	0	3
PTAC 1308	Safety, Health and Environment I	3	1	3
PTAC 1332	Process Instrumentation I	2	2	3
*PTAC 2420	Process Technology II (Systems)	<u>3</u>	<u>2</u>	<u>4</u>
		11	5	13

*Capstone Course

Total Credits Required for Process Technology Certificate44



Classes at ACC are personal and provide one-on-one instruction.