

**ASSOCIATE OF APPLIED SCIENCE DEGREE**  
**CHEMICAL TECHNOLOGY**  
*Process Operations Option*

Note: For those students planning to seek admission to Brazosport College's Bachelor of Applied Technology program, see page 45 for suggested 4-year program of study.

<b>First Semester</b>		
<b>Course</b>	<b>Title</b>	<b>Credit Hours</b>
CHEM 1405	Introductory Chemistry	4
MATH 1314 or higher	College Level Mathematics	3
PTAC 1432	Process Instrumentation I	4
PTAC 1302	Introduction to Process Technology	3
Social or Behavioral Science Elective	GOVT, HIST, PSYC, or SOCI	3
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<b>Second Semester</b>		
<b>Course</b>	<b>Title</b>	<b>Credit Hours</b>
PTAC 1408	Safety, Health, and Environment I	4
CTEC 1441	Applied Instrumental Analysis I	4
CTEC 1401 <b>or</b> PHYS 1401	Applied Petrochemical Technology (Technical Physics) <b>or</b> College Physics I	4
PTAC 1410	Process Technology I - Equipment	4
SPCH 1315 <b>or</b> SPCH 1318	Fundamentals of Speech <b>or</b> Interpersonal & Small Group Communication	3
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<b>Third Semester</b>		
<b>Course</b>	<b>Title</b>	<b>Credit Hours</b>
CTEC 1380 <b>or</b> INTC 1441	Cooperative Education I – Chemical Technician <b>or</b> Principles of Automatic Control	3/4
ENGL 1301	Composition and Rhetoric I	3
BCIS 1405	Business Computer Applications <b>or</b> Approved Computer Elective <sup>1</sup>	4
PTAC 2420	Process Technology II - Systems	4
CTEC 1391	Equipment Troubleshooting	3
		17/18

<b>Fourth Semester</b>		
<b>Course</b>	<b>Title</b>	<b>Credit Hours</b>
CTEC 1381 <sup>1</sup>	Cooperative Education II – Chemical Technician or Approved Elective <sup>1</sup>	3
PTAC 2314	Principles of Quality	3
PTAC 2446	Process Troubleshooting	4
Humanities Elective	ARTS 1301, DRAM 1310, ENGL 2322, 2323, 2327, 2328, 2331 2342, or 2343, HUMA 1301, or MUSI 1306	3
PTAC 2438	Process Technology III - Operations	4
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<sup>1</sup> Contact Division Chair.

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**CHEMICAL TECHNOLOGY**  
***Process Operations Certificate***

<b>Course</b>	<b>Title</b>	<b>Credit Hours</b>
PTAC 1302	Introduction to Process Technology	3
PTAC 1432	Process Instrumentation I	4
PTAC 1408	Safety, Health, and Environment I	4
PTAC 1410	Process Technology I - Equipment	4
CHEM 1405	Introductory Chemistry	4
CTEC 1441	Applied Instrumental Analysis I	4
INTC 1441	Principles of Automatic Control	4
PTAC 2420	Process Technology II - Systems	4
PTAC 2438	Process Technology III - Operations	4
PTAC 2446	Process Troubleshooting	4
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**CHEMICAL TECHNOLOGY**  
***Nuclear Power Enhanced Skills Certificate\****

<b>Course</b>	<b>Title</b>	<b>Credit Hours</b>
NUCP 1370	Nuclear Fundamentals I	3
NUCP 1471	Nuclear Fundamentals II	4
NUCP 1472	Nuclear Power Plant Organization and Processes	4
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\* For students who have earned the A.A.S. degree in Chemical Technology, Process Operations Option.