

## **Process Technology (Associate of Applied Science)**

The curriculum for the Process Technology (PTEC) Associate of Applied Science addresses a high-demand field. Upon graduation from the program, students are prepared to enter the employment market as entry-level process operators for refinery, chemical, and other industry-related areas.

To receive the Process Technology certificate, technical diploma, and/or degree, the student must:

- Have a cumulative GPA of 2.00 or better in all credit hours that are to be used towards the award.
- Earn a “C” or better in all courses.
- Earn a minimum of 12 credit hours in technical course work (Process Technology courses) at BRCC.
- Complete the coursework listed below.

Program Outcomes. Upon successful completion of the program, the graduate will be able to:

1. Work effectively as a team member and demonstrate that they can exhibit professional and ethical behavior in the workforce.
2. Operate process technology equipment and systems as a process technician.
3. Practice environmental safety and health guidelines as a process technician.

### **Program of Study**

<b>First Semester</b>		<b>Credit Hours</b>
<i>Choose one of the following (GenEd Mathematics/Analytical Reasoning):</i>		
Any General Education course in Mathematics		
<i>or</i>		<b>3</b>
PHIL 2113, Introduction to Logic		
ENGL 1013	English Composition I	<b>3</b>
PTEC 1013	Introduction to Process Technology	<b>3</b>
PTEC 2033	Safety, Health, and Environment	<b>3</b>
<i>Choose one of the following<sup>1</sup>:</i>		
CSCI 1013	Introduction to Computer Technology	
<i>or</i>		<b>3</b>
CSCI 2203 <sup>1</sup>	Microcomputer Applications in Business	
<b>Semester Total:</b>		<b>15</b>
<b>Second Semester</b>		<b>Credit Hours</b>
SPCH 2013	Techniques of Speech	<b>3</b>
<i>Choose one of the following pairs of courses<sup>2</sup>:</i>		
PHSC 1023, Physical Science I (3) and PHSC 1021, Physical Science I Lab (1)		
<i>or</i>		<b>4</b>
PHYS 2113, General Physics I (3) and PHYS 2111, General Physics I Lab (1)		
PTEC 1312	Process Instrumentation	<b>2</b>
PTEC 1322	Process Instrumentation Lab	<b>2</b>
PTEC 1612	Process Technology I Equipment	<b>2</b>
PTEC 1622	Process Technology I Equipment Lab	<b>2</b>

		<b>Semester Total:</b>	<b>15</b>
<b>Third Semester</b>			<b>Credit Hours</b>
<i>Choose one of the following pairs of courses<sup>2</sup>:</i>			
CHEM 1043, Chemistry for PTEC Majors (3) and CHEM 1041, Chemistry Lab for PTEC Majors (1)			
<i>or</i>			<b>4</b>
CHEM 1123, Chemistry I for Science Majors (3) and CHEM 1121, Chemistry I Lab (1)			
PTEC 2073	Quality		<b>3</b>
PTEC 2423	Process Technology II Unit Systems		<b>3</b>
PTEC 2421	Process Technology II Unit Systems Lab		<b>1</b>
PTEC 2633	Fluid Mechanics		<b>3</b>
		<b>Semester Total:</b>	<b>14</b>
<b>Fourth Semester</b>			<b>Credit Hours</b>
Any SACSCOC-accepted Gen-Ed. Humanities <sup>3</sup>			<b>3</b>
ECON 2113 or 2213 or 2223	Economic Principles or Principles of Macroeconomics or Principles of Microeconomics		<b>3</b>
PTEC 2432	Process Technology III Operations		<b>2</b>
PTEC 2442	Process Technology III Operations Lab		<b>2</b>
PTEC 2443	Process Troubleshooting		<b>3</b>
		<b>Semester Total:</b>	<b>13</b>
<b>Fifth Semester</b>			<b>Credit Hours</b>
PTEC 2913 <sup>4</sup>	Process Technology Internship		<b>3</b>
		<b>Semester Total:</b>	<b>3</b>
		<b>Total Program Credit Hours:</b>	<b>60</b>

**Process Technology Credentials Available:**

		<b>Credit Hours</b>
CSCI 1013 or CSCI 2203 <sup>1</sup>	Intro to Computer Technology or Microcomputer Applications in Business	<b>3</b>
PTEC 1013	Introduction to Process Technology	<b>3</b>
PTEC 2033	Safety, Health, and Environment	<b>3</b>
PTEC 1312	Process Instrumentation	<b>2</b>
PTEC 1322	Process Instrumentation Lab	<b>2</b>
PTEC 1612	Process Technology I Equipment	<b>2</b>
PTEC 1622	Process Technology I Equipment Lab	<b>2</b>
PTEC 2073	Quality	<b>3</b>
<b>CTS: Process Technology Support Technician</b>		<b>20</b>
		<b>Credit Hours</b>
CSCI 1013 or CSCI 2203 <sup>1</sup>	Intro to Computer Technology or Microcomputer Applications in Business	<b>3</b>
Any Gen Ed Math or PHIL	Any General Education course in Mathematics or	<b>3</b>

2113	Introduction to Logic	
PHSC 1023 or PHYS 2113	Physical Science I or General Physics I	3
PHSC 1021 or PHYS 2111 <sup>2</sup>	Physical Science I Lab or General Physics I Lab	1
CHEM 1043 or 1123	Chemistry for PTEC Majors or Chemistry I for Science Majors	3
CHEM 1041 or 1121 <sup>2</sup>	Chemistry Lab for PTEC Majors or Chemistry I Lab	1
PTEC 1013	Introduction to Process Technology	3
PTEC 2033	Safety, Health, and Environment	3
PTEC 1312	Process Instrumentation	2
PTEC 1322	Process Instrumentation Lab	2
PTEC 1612	Process Technology I Equipment	2
PTEC 1622	Process Technology I Equipment Lab	2
PTEC 2073	Quality	3
PTEC 2423	Process Technology II Unit Systems	3
PTEC 2421	Process Technology II Unit Systems Lab	1
PTEC 2633	Fluid Mechanics	3
PTEC 2432	Process Technology III Operations	2
PTEC 2442	Process Technology III Operations Lab	2
PTEC 2443	Process Troubleshooting	3
PTEC 2913 <sup>4</sup>	Process Technology Internship	3
<b>TD: Process Technology</b>		<b>48</b>

- <sup>1</sup> CSCI 1013 and CSCI 2203 are exclusive to each other. Students cannot take both for credit.
- <sup>2</sup> The lab course taken must correspond with the Natural Science course chosen (PHSC 1021 with PHSC 1023, CHEM 1041 with CHEM 1043, etc.).
- <sup>3</sup> The SACSCOC-accepted Gen-Ed. Humanities courses are listed below.
- ENGL 2133, Literature and Ethnicity
  - ENGL 2303, Introduction to Fiction
  - ENGL 2313, Introduction to Poetry and Drama
  - ENGL 2123, Major British Writers
  - ENGL 2173, Major American Writers
  - ENGL 2223, Major World Writers
  - ENGL 2403, introduction to African-American Literature
  - ENGL 2323, Introduction to Literature
  - ENGL 2503, Introduction to Folklore
  - ENGL 2483, Shakespeare: The More Popular Plays
  - HIST 1113, History of World Civilizations I
  - HIST 1123, History of World Civilizations II
  - HIST 2003, History of Roman Republic and Empire
  - HIST 2013, American History Colonial to 1865
  - HIST 2023, American History 1865-Present
  - HIST 2213, Modern Europe 1500-1848
  - HIST 2223, Modern Europe 1848 to Present
  - HUMN 2103, World Mythology
  - HUMN 2013, Africa and the Middle East

HUMN 2553, Asia and the Americas  
HUMN 2753, The Heroic Journey: From Classical to Contemporary  
PHIL 1013, Introduction to Philosophy  
PHIL 2013, Introduction to Ethics  
PHIL 2283, Philosophy of Religion

- 4 Must have completed all coursework for the degree with a cumulative GPA of 2.0 or better and with departmental approval.

For more information, contact the Process Technology Department at 225-216-8451.