

Chemical Technology A.A.S. (CHT)

This program prepares students to work with chemicals and chemical instrumentation safely and effectively. Graduates are qualified to enter the chemical industry as chemical laboratory technicians. With experience, supervisory positions in the chemical industry may be assumed.

Upon successful completion of this program, graduates will be able to:

- demonstrate an understanding of chemical principles and concepts.
- show proficiency in the practice and theory of modern scientific instrumentation.
- demonstrate facility with direct acquisition of data to computers and computerized instrumentation.
- demonstrate literacy in data manipulation and analysis using computerized spreadsheets and graphing programs.
- show the ability to work in a typical chemistry lab while following appropriate safety procedures and laws.
- show the ability to work both independently and collaboratively on a wide variety of projects.
- demonstrate the ability to apply results of previous research to new experimental applications.
- demonstrate the ability to communicate results both orally and through written reports in an effective and efficient manner.
- apply statistics to analyze the credibility of scientific results.
- apply all steps of the scientific method to research, design, perform, and report on a solution to a scientific problem.

First Semester		Credits
CHE 111	General Chemistry I	4
CIS 105	Introduction to Computers and Applications	3
ENG 105	Research and Composition	3
MAT 160	College Algebra	3
Elective	Social Science/Humanities	3
		16
Second Semester		
CHE 112	General Chemistry II	4
ENG 107	Writing in the Workplace	3
or ENG 106	Introduction to Literature	
MAT 150	Introduction to Probability and Statistics	3
PHY 110	Elements of Physics	4
Elective	Social Science/Humanities	3
		17
Third Semester		
CHE 107	Chemical and Laboratory Safety	2
CHE 205	Organic Chemistry I	4
CHE 211	Instrumental and Quantitative Analysis I	4
Elective*	Course numbered 101 or higher	3
		13
Fourth Semester		
CHE 206	Organic Chemistry II	4
CHE 209	Polymer Chemistry	3
CHE 212	Instrumental and Quantitative Analysis II	4
Elective	Course numbered 101 or higher	3-5
		14-16
Credit Total		60

*Recommended elective is ENG 111.

Prior Learning Assessment: Previous job training, certificates and work experience that may qualify for college credit (*see academic advisor*).

Gateway Courses: Based on placement testing in reading, writing and math, these prerequisite courses may have to be taken before placement in College English or Mathematics beginning the first semester and concurrently.

RSS 099	Basic Skills Reading	3
RSS 100	Critical Reading	3
ENG 099	Basic Skills Writing	3
ENG 100	Fundamentals of Writing	3
MAT 090	Mathematical Literacy	6
ESL 251	English for Academic Purpose	6
<i>(Required for ESL students only.)</i>		

Please note, taking gateway courses will increase your time for completion.

