CHEMISTRY

Associate of Science degree



Program and Career Description:

The Chemistry emphasis is a two-year program for students planning to seek employment as a chemical technician or who plan to complete a bachelor's degree in such fields as Chemistry, Biochemistry, Chemical Engineering and Science Education, just to name a few. Students should consider this degree when pursuing careers in any of the fields described on the American Chemical Society (ACS) Website (http://www.acs.org/content/acs/ en/careers.html) Also, a degree in chemistry is good preparation for students wishing to continue their post-baccalaureate education in graduate schools of chemistry, biochemistry, health related areas such as pharmacology and toxicology, as well as in professions schools of Medicine, Law, Pharmacy, Dentistry or Veterinary Science.

Career	Entry-Level Education	Entry-Level Pay	Median Pay	Experienced Pay
Chemical Technician	Associate's degree	\$30,550	\$45,680	\$55,070
Chemical Engineer	Bachelor's degree	\$68,250	\$95,270	\$112,230
Chemistry Teacher, Secondary	Bachelor's degree	\$38,830	\$49,770	\$56,890
Chemists and Materials Scientists	BS degree; MS or PhD for some jobs	\$48,320	\$90,680	\$109,870

Career and salary information taken from *JOBS4TN.GOV*. Check out this website for additional information about job descriptions, education requirements and abilities, and supply and demand for these careers. For additional information from a national perspective, go to Bureau of Labor Statistics, U. S. Department of Labor on the internet at *www.bls.gov*. Visit the <u>Occupational Outlook Handbook</u> on this website. Salaries are not guaranteed.

Transfer Options

This program is a Tennessee Transfer Pathway (TTP) major. A student who completes the associates degree in this major is guaranteed that all required community college courses will be accepted in this major at the transfer institution. To see which four-year institutions offer this TTP major and guarantees a seamless transfer, visit the Tennessee Transfer Pathway website at www.tntransferpathway.org.

Articulation agreements exist between other private and non-TN public institutions. These agreements are available at www.columbiastate.edu/admissions/transfer-information.



CHEMISTRY

Major in Tennessee Transfer Pathway with Emphasis in Chemistry (A.S.)

Program Requirements

Students may be required to take additional Learning Support courses.

Communications Requirement COMM 2025 or COMM 2055 ENGL 1010, 1020

History Requirement (Take 2 courses) HIST 2010, 2020, 2030, 2310, 2320

Humanities/Fine Arts (Take 3 courses -- one must be a literature course)
ART 1035, 2000, 2020
ENGL 2160, 2860
HUM 1010, 1020
MUS 1030
PHIL 1030, 1040, 2200
THEA 1030
Literature Options: ENGL 2055, 2130, 2235, 2310, 2320

Natural Sciences Requirement CHEM 1110, 1120

Mathematics Requirement MATH 1910

Social/Behavioral Sciences (Take 2 courses) ANTH 1230, 1430 ECON 2100, 2200 GEOG 2010 MCOM 1110 PHED 2120 POLS 1010, 1030, 2025, 2035 PSYC 1030, 2130 SOCI 1010, 1040, 2010

Major Required Courses CHEM 2010, 2020 COLS 101 MATH 1920 PHYS 2110, 2120

If you have completed TN eCampus courses, run a degree audit from the student tab in myChargerNet to determine how these courses apply to this program.

Requirements for Graduation include:

- earning 25% of total program credits in residence at Columbia State.
- earn a cumulative GPA of 2.0 or higher.
- taking the Exit Exam.

Sample Academic Plan

First Year - Fall Semester

ENGL 1010 Humanities/F	English Composition I	3
	General Chemistry I	4
MATH 1910		4
	Columbia State College Success	1
COLS TOT	Columbia State College Success	15
First Year – Spring	g Semester	13
ENGL 1020	English Composition II	3
	Fundamentals of Communication or	
COMM 2055		3
CHEM 1120	General Chemistry II	4
MATH 1920	Calculus II	4
		14
Second Year – Fal	l Semester	
Literature Requirement		
Social/Behavioral Science		
PHYS 2110	Calculus-Based Physics I	4
CHEM 2010	Organic Chemistry I	4
History Requirement		
		17
Second Year – Spi	ring Semester	
CHEM 2020	Organic Chemistry II	4
Social/Behavioral Science		
History Requirement		
Humanities/F	ine Arts	3
PHYS 2120	Calculus-Based Physics II	4
		17

TOTAL CREDIT HOURS 63

At some universities, foreign language may be required in certain programs that lead to the Bachelor of Science Degree. Complete information regarding foreign language requirements at each university may be found on the transfer and articulation web sites of the Tennessee Board of Regents and the University of Tennessee System. Community college students are encouraged to be familiar with foreign language requirements at the universities and, if applicable, complete the requirements before transferring.

For more information contact:
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