

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	Beginning Salary with BS degree	Experienced Salary Median
Chemical Technician	\$31,210	\$50,340
Chemical Engineer	\$63,140	\$104,180
High School Chemistry Teacher	\$37,910	\$53,540
Chemist	\$41,240	\$86,630

Career and salary information taken from www.bls.gov. Check out this web site for additional information about education requirements and preferred work styles and abilities for these careers. Salaries are not guaranteed.

Transfer Options

Per the *Complete College Tennessee Act of 2010*, this degree will be transferable to any of the following universities offering a Baccalaureate degree in this major:

- Austin Peay State University
- East Tennessee State University
- Middle Tennessee State University
- Tennessee State University
- Tennessee Tech University
- University of Memphis
- University of Tennessee, Chattanooga
- University of Tennessee, Knoxville
- University of Tennessee, Martin

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

ENGL 1010, 1020
SPCH 1010 or SPCH 1030

History Requirement (Take 2 courses)

HIST 1110, 1120, 2010, 2020, 2030

Humanities/Fine Arts (Take 3 courses -- one must be a literature course)

ART 1030
ARTH 2010, 2020
ENGL 2015
HUM 1130, 1131
MUS 1030
PHIL 1030, 2030, 2033
THEA 1030
Literature Options: ENGL 2130, 2230, 2310, 2320, 2920

Natural Sciences Requirement

CHEM 1110, 1120

Mathematics Requirement

MATH 1910

Social/Behavioral Sciences (Take 2 courses)

ANTH 1200, 1300
ECON 2010, 2020
GEOG 2010
PHED 2120
POL 201
POLS 1030, 1501, 2010
PSYC 1030, 2130
SOC 1010, 1020, 2010

Major Required Courses

CHEM 2010, 2020
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.
- cumulative GPA must be 2.0.
- taking the Exit Exam.

Sample Academic Plan

First Year – Fall Semester

___ ENGL 1010	Composition I	3
___ Humanities/Fine Arts		3
___ CHEM 1110	General Chemistry I	4
___ MATH 1910	Calculus & Analytic Geometry I	4
___ COLS 101	Columbia State College Success	1
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First Year – Spring Semester

___ ENGL 1020	Composition II	3
___ SPCH 1010	Fundamentals of Speech Communication or	
___ SPCH 1030	Argumentation and Debate	3
___ CHEM 1120	General Chemistry II	4
___ MATH 1920	Calculus & Analytic Geometry II	4
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Second Year – Fall Semester

___ Literature Requirement		3
___ Social/Behavioral Science		3
___ PHYS 2110	Physics I	4
___ CHEM 2010	Organic Chemistry I	4
___ History Requirement		3
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Second Year – Spring Semester

___ CHEM 2020	Organic Chemistry II	4
___ Social/Behavioral Science		3
___ History Requirement		3
___ Humanities/Fine Arts		3
___ PHYS 2120	Physics II	4
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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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