

## Secondary Education–Chemistry Associate of Arts in Teaching (AAT): 610

Total Credits: 65  
Catalog Edition: 2018-2019

### Program Description

This curriculum prepares students to transfer to a secondary education Chemistry program at a four-year college or university in the state of Maryland. The AAT articulates with all Maryland transfer programs in secondary Chemical education. The program enables students to fulfill their General Education requirements, participate in fieldwork experiences, and complete a core of professional education coursework required for the first two years of teacher preparation. To earn the AAT, students must achieve a minimum of a 2.75 cumulative GPA and present required scores on a state-approved basic skills test

### Program Outcomes

- Identify major historical events in education and analyze the impact of those events with current educational trends.
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to disabilities and cultural and linguistic diversity.
- Analyze and critique current scientifically-based research and culturally responsive instructional practices for the purpose of understanding the educational needs of students and families.
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners.
- Demonstrate and utilize technology as a teaching/reinforcement tool.
- Develop excellent written, verbal, critical thinking, and problem solving skills, which will allow him or her to effectively make connections between prior knowledge/experience and new learning.
- Demonstrate proficiency in the application of chemistry through the level of organic chemistry.

### Program Advisors

#### Germantown

- **Prof. Sonja Fisher**  
240-567- 6012  
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#### Rockville

- **Dr. Glenda Hernandez Baca**  
240-567- 1317  
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- **Prof. Deb Poese**  
240-567-7269  
[Debra.poese@montgomerycollege.edu](mailto:Debra.poese@montgomerycollege.edu)

#### Takoma Park/Silver Spring

- **Dr. Glenda Hernandez Baca**  
240-567-1317  
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For more information, please visit:

<http://www.montgomerycollege.edu/education>

# 2018-2019 Program Advising Guide

An Academic Reference Tool for Students

**610**

Secondary Education–Chemistry AAT  
ASSOCIATE OF ARTS IN TEACHING: 610

# Secondary Education--Chemistry AAT

## Associate of Arts in Teaching: 610

### Suggested Course Sequence

This section is available on the catalog website at  
<http://catalog.montgomerycollege.edu/content.php?catoid=9&navoid=1840>

#### First Semester

- **CHEM 131 - Principles of Chemistry I** 4 semester hours
- **EDUC 101 - Foundations of Education** 3 semester hours \*
- **EDUC 102 - Field Experience in Education** 1 semester hour
- **ENGL 101 - Introduction to College Writing** 3 semester hours \*
- **MATH 181 - Calculus I** 4 semester hours

#### Second Semester

- **CHEM 132 – Principles of Chemistry II** 4 semester hours
- **EDUC 201 - Introduction to Special Education** 3 semester hours
- **EDUC 202 - Field Experience in Special Education** 1 semester hour
- **ENGL 102 - Critical Reading, Writing, and Research** 3 semester hours (ENGF)
- **MATH 182 - Calculus II** 4 semester hours

#### Third Semester

- **BIOL 150 - Principles of Biology I** 4 semester hours
- **HIST 200 - History of the United States, a Survey Course: from Colonial Times to 1865** 3 semester hours (HUMD)
- **ISTD 173 - Integrated Arts** 3 semester hours (ARTD)
- **CHEM 203 – Organic Chemistry I** 4 semester hours
- **PSYC 102 - General Psychology** 3 semester hours (BSSD)

#### Fourth Semester

- **COMM 108 - Foundations of Human Communication** 3 semester hours (GEIR)
- **CHEM 204 – Organic Chemistry II** 5 semester hours
- **PSYC 227 - Educational Psychology** 3 semester hours
- Arts distribution (ARTD) or humanities distribution (HUMD) 3 semester hours (GEIR)
- Behavioral and social sciences distribution 3 semester hours (BSSD) \*\*

**Total Credit Hours: 65**

### Advising Notes

\* ENGL 1-1. Of needed for ENGL 102. or elective

\*\* Not PSYC course.

**NOTE: Either HUMD/ARTD or BSSD must meet the Montgomery College multicultural requirement**

# CHEMISTRY - SECONDARY EDUCATION A.A.T.: 610

## TEACHER EDUCATION TRANSFER PROGRAM

Total Credits: 65  
Catalog Editions 17-18 through 18-19

Name:

Date:

ID #:

**NOTE:** To earn the AAT students must achieve a minimum of a 2.75 cumulative GPA and present acceptable scores on one of the following state-approved basic skills tests: SAT, ACT, GRE, Praxis I PPST or Praxis Core Academic Skills Tests.

Consult an education advisor about this degree and plan to take your basic skills test if needed no later than completion of 45 credits.

<b>GENERAL EDUCATION: FOUNDATION COURSES</b>	<b>Course</b>	<b>Hours</b>	<b>Grade</b>
English Foundation	EN 102/ <b>ENGL 102</b>	3	
Math Foundation	MA 181/ <b>MATH 181</b>	4	

<b>GENERAL EDUCATION: DISTRIBUTION COURSES</b>	<b>Course</b>	<b>Hours</b>	<b>Grade</b>
Arts Distribution (ARTD)	IS 273/ <b>ISTD 173</b>	3	
Humanities Distribution (HUMD)	HS 201/ <b>HIST 200</b>	3	
Behavioral & Social Sciences Distribution (BSSD)	PY 102/ <b>PSYC 102</b>	3	
Behavioral & Social Sciences Distribution (BSSD not PSYC)‡		3	
Natural Sciences Distribution with Lab (NSLD)	CH 101/ <b>CHEM 131</b>	4	
Natural Sciences Distribution with Lab (NSLD)	BI 107/ <b>BIOL 150</b>	4	
General Education Institutional Requirement (GEIR)	SP 108/ <b>COMM108</b>	3	
ARTD or HUMD (GEIR) Choose course from general education ARTD or HUMD. Discuss appropriate course choice with education faculty advisor.			

<b>PROGRAM REQUIREMENTS</b>	<b>Course</b>	<b>Hours</b>	<b>Grade</b>
<b>ENGL 101 or ENGL 101A</b> (if needed for ENGL102 or Elective)*			
	ED 101/ <b>EDUC 101</b>	3	
	ED 102/ <b>EDUC 102</b>	1	
	ED 140/ <b>EDUC 201</b>	3	
	ED 141/ <b>EDUC 202</b>	1	
	MA 182/ <b>MATH 182</b>	4	
	CH 102/ <b>CHEM 132</b>	4	
	CH 203/ <b>CHEM 203</b>	5	
	CH 204/ <b>CHEM 204</b>	5	
	PY 227/ <b>PSYC 227</b>	3	

**Overall GPA of 2.75 or higher AND passing score on basic skills test are required to graduate with the A.A.T.**

Has student completed the Global Perspectives requirement?  Yes  No

Total Credits:

Student has overall GPA of 2.75 or higher and passing score on basic skills test?  Yes  No

[Education Web Page](#)

\*ENGL 101/ENGL 101A, if needed for ENGL 102 or Elective.

Last Modified: July 2018

‡ Students must select a BSSD elective from a different discipline than PSYC; course must meet Global requirement.

**NOTE:** Students will be required to take two semesters of Physics at many transfer institutions to complete a bachelor's degree in Chemistry.

Advising Worksheet Contact: [Anthony Solano](#)

See an [advisor](#) to submit an [Application for Graduation](#) the semester BEFORE you intend to graduate.

**This UNOFFICIAL document is for planning purposes ONLY and completion does not guarantee graduation.**

## Transfer Opportunities

Montgomery College has partnerships with multiple four-year institutions and the tools to help you transfer. To learn more please visit: <http://cms.montgomerycollege.edu/Transfer/> or <http://artsys.usmd.edu/>

## Get Involved at MC!

Employers and Transfer Institutions are looking for experience outside the classroom.

## MC Student Clubs and Organizations

<https://cms.montgomerycollege.edu/edu/plain.aspx?id=2439>

## Related Careers

Most require a Bachelor's degree. High school chemistry teacher, environmental consultant, researcher, chemical technology, laboratory management.

## Career Services

<http://www.montgomerycollege.edu/career>

## Career Coach

A valuable online search tool that will give you the opportunity to explore hundreds of potential careers or job possibilities in Maryland and the Washington D.C. metropolitan area.

Get started today on your road to a new future and give it a try. Visit the website listed below:

<https://montgomerycollege.emsicareercoach.com>

## Notes: