

## Secondary Education–Chemistry Associate of Arts in Teaching (AAT): 610 Total Credits: 65

### 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 Advising

#### Rockville

- **Dr. Glenda Hernandez Baca**  
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- **Prof. Deb Poes**  
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#### Germantown

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

# 2017-2018 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=8&navoid=1322>

#### 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 AAT Degree (610)**  
**Secondary Teacher Education Transfer Program Outline**

Consult an education advisor to plan for completing this degree. In order to graduate, in addition to this program of study, students must **earn a 2.75 GPA**, pass an approved **basic skills test** (SAT/ACT/Praxis), and **complete an application for graduation**.

COURSE REQUIREMENTS	COURSE NUMBER	SEMESTER HOURS	
		Credits	<input checked="" type="checkbox"/>
<b>Foundation Courses</b>			
Critical Reading, Writing, and Research	ENGL 102	3	
Calculus I	MATH 181	4	
<b>Distribution Courses</b>			
Integrated Arts	ISTD 173	3	
History of the United States, A Survey Course: from the Colonial Times to 1865	HIST 200	3	
General Psychology	PSYC 102	3	
Behavioral/Social Sciences Distribution**		3	
Principles of Chemistry I	CHEM 131	4	
Principles of Biology I	BIOL 150	4	
<b>General Education Institutional Requirements</b>			
Foundation of Human Communication	COMM 108	3	
Arts or Humanities Distribution		3	
<b>Program Requirements</b>			
Principles of Chemistry II	CHEM 132	4	
Organic Chemistry I	CHEM 203	5	
Organic Chemistry II	CHEM 204	5	
Foundations of Education	EDUC 101	3	
Field Experience in Education	EDUC 102	1	
Introduction to Special Education	EDUC 201	3	
Field Experience in Special Education	EDUC 202	1	
Intro to College Writing*	ENGL 101	3	
Calculus II	MATH 182	4	
Educational Psychology	PSYC 227	3	

**Total credit hours    65**

\*ENGL 101, if needed for ENGL 102, or elective

\*\* Not PSYC course

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

**This outline valid Fall 2017 forward.**

## 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: