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  
  240-567-1317  
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- Prof. Deb Poese  
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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  
  Glenda.baca@montgomerycollege.edu

For more information, please visit:
http://www.montgomerycollege.edu/education
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.

<table>
<thead>
<tr>
<th>COURSE REQUIREMENTS</th>
<th>COURSE NUMBER</th>
<th>SEMESTER HOURS</th>
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<tbody>
<tr>
<td><strong>Foundation Courses</strong></td>
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<tr>
<td>Critical Reading, Writing, and Research</td>
<td>ENGL 102</td>
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<td>Calculus I</td>
<td>MATH 181</td>
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<td><strong>Distribution Courses</strong></td>
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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.asp?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