SECONDARY EDUCATION-CHEMISTRY AAT: 610
Total Credits: 65
Catalog Edition: 2020-2021

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 chemistry education. The program enables students to fulfill their General Education requirements, participate in fieldwork experiences, and complete a core of professional education coursework appropriate 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 acceptable scores on a state-approved basic skills test.

Program Outcomes
Upon completion of this program, the student will be able to:

• 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.
Suggested Course Sequence

A suggested course sequence for full-time students follows. All students should review this advising guide and consult an advisor.

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

Second Semester
- ENGL 102 - Critical Reading, Writing, and Research 3 semester hours (ENGF)
- 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
- MATH 182 - Calculus II 4 semester hours

Third Semester
- BIOL 150 - Principles of Biology I 4 semester hours
- CHEM 203 - Organic Chemistry I 5 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)
- PSYC 102 - General Psychology 3 semester hours (BSSD)

Fourth Semester
- CHEM 204 - Organic Chemistry II 5 semester hours
- COMM 108 - Foundations of Human Communication 3 semester hours (GEIR)
- PSYC 227 - Educational Psychology 3 semester hours
- Arts or Humanities Distribution 3 semester hours (GEIR)
- Behavioral and Social Sciences Distribution 3 semester hours (BSSD) **

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* ENGL 101/ENGL 101A, if needed for ENGL 102, or elective.
‡Students must select a BSSD elective from a different discipline than PSYC; course must meet Global requirement.

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