

# SECONDARY EDUCATION - CHEMISTRY (AAT)

**Award:** Associate of Arts in Teaching

**No. of credits required:** 62

**For more information:** *Contact Admissions, 443-412-2109.*

## Program Description

The A.A.T. degree program prepares students for transfer into a four-year college or university education program. High school preparation should include four units of English, three units of math of which two should be algebra, and three units of science.

Students must have a qualifying score on Praxis CORE or an equivalent assessment in order to earn an A.A.T. degree. Students should plan to take Praxis CORE, which includes core English and math competencies, near completion of 45 credit hours. Information can be obtained from the Test and Assessment Center or the academic division. Passing scores on Praxis, SAT, GRE, or ACT may be substituted in place of Praxis CORE, but may not be accepted by all transfer institutions.

## Program Goals

Upon completion of the Teacher Education A.A.T. degree programs, students will be able to

1. Demonstrate professional teaching behavior including effective communication.
2. Discuss the development of education/curriculum and select instructional techniques appropriate for a variety of students.
3. Describe influences on growth and development, as well as theories of learning.
4. Make decisions in accordance with legal and ethical standards.
5. Summarize past and present practices pertaining to education.

## Transfer Information

This program requires the successful completion of Praxis CORE and at least a 2.75 GPA. Because the program courses are chosen to fulfill predetermined outcomes, the entire program will transfer to any four-year state or private college in Maryland; however, students are not guaranteed admission to any four-year institution and must apply to and meet the criteria required by that particular institution. Additionally, courses in the program will transfer to private and public colleges nationwide.

Past graduates of this program have transferred to four-year state colleges and universities in Maryland and to private and public colleges nationwide. To facilitate transfer, students should consult with an academic advisor early in their studies at HCC and before selecting elective courses.

## Employment Information

According to the United States Department of Labor, Bureau of Labor Statistics, nearly 1.1 million secondary school public teachers will be needed by 2018.

## Diversity Requirement

To satisfy the diversity requirement: Associate degree students must complete one 3-credit diversity course (D). It is recommended that

students select one of the 3-credit (GB), (GH), (GI) course electives from those that also appear on the approved list of diversity course graduation requirements.

## Degree Requirements

### Recommended Course Sequence

| Course  | Title   | Credits |
|---|---|---------|
| <b>First Semester</b>   |   |         |
| CHEM 111  | General Chemistry I (GL)  | 4       |
| EDUC 101  | Introduction to Education <sup>1</sup>  | 3       |
| ENG 101   | English Composition (GE)  | 3       |
| MATH 203  | Calculus I (GM)   | 4       |
| PSY 101   | General Psychology (GB)   | 3       |
| Credits   |   | 17      |
| <b>Second Semester</b>  |   |         |
| CHEM 112  | General Chemistry II A (GL)   | 4       |
| CMST 101  | Speech Fundamentals (GI)  | 3       |
| MATH 204  | Calculus II (GM)  | 4       |
| PHYS 203  | General Physics: Mechanics and Particle Dynamics (GS) <sup>2</sup>                    | 3       |
| PSY 207   | Educational Psychology  | 3       |
| Credits   |   | 17      |
| <b>Third Semester</b>   |   |         |
| CHEM 207  | Organic Chemistry I   | 4       |
| EDUC 217  | Introduction to Special Education <sup>1,3</sup>                                      | 3       |
| PHYS 204  | General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (GL) <sup>2</sup> | 4       |
| Arts/Humanities Elective (GH) ( <a href="https://catalog.harford.edu/general-education/#arts-humanities">https://catalog.harford.edu/general-education/#arts-humanities</a> )                               |   | 3       |
| Credits   |   | 14      |
| <b>Fourth Semester</b>  |   |         |
| CHEM 208  | Organic Chemistry II  | 4       |
| PSY 216   | Adolescent Psychology   | 3       |
| Behavioral/Social Science Elective (GB) ( <a href="https://catalog.harford.edu/general-education/#behavioral-social-science">https://catalog.harford.edu/general-education/#behavioral-social-science</a> ) |   | 3       |
| Arts/Humanities Elective (GH) ( <a href="https://catalog.harford.edu/general-education/#arts-humanities">https://catalog.harford.edu/general-education/#arts-humanities</a> )                               |   | 3       |
| Physical Education Elective   |   | 1       |
| Credits   |   | 14      |
| Total Credits   |   | 62      |

<sup>1</sup> Students are required to participate in a thirty-hour field placement experience in addition to time spent in EDUC 101 Introduction to Education and EDUC 217 Introduction to Special Education. Field placement experiences take place sometime during regular school hours, generally between 8:00 a.m. and 3:30 p.m. A criminal record check will be conducted prior to students entering a school setting.

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<sup>2</sup> Two semesters of calculus-based physics (PHYS 203 General Physics: Mechanics and Particle Dynamics (GS)/PHYS 204 General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (GL)) will transfer to all institutions offering chemistry and secondary teaching certification, or two semesters of algebra-based physics (PHYS 101 Introductory Physics I (GL)/PHYS 102 Introductory Physics II (GL)) will transfer to Towson, Hood, Columbia Union, Goucher, or Frostburg Universities.

<sup>3</sup> The EDUC 217 Introduction to Special Education course required by Harford Community College is a necessary requirement of the College's A.A.T. degree, but is not sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.

## **General Education Degree Requirements**

Note: The following codes identify courses which satisfy the General Education Degree Requirements:

Behavioral/Social Science (GB)

English Composition (GE)

Arts/Humanities (GH)

Interdisciplinary and Emerging Issues (GI)

Biological/Physical Laboratory Science (GL)

Mathematics (GM)

Biological/Physical Science (GS)