

**Secondary Education–Physics
Associate of Arts in Teaching (AAT): 603
Total Credits: 65
Catalog Edition: 2018-2019**

Program Description

This curriculum prepares students to transfer to a secondary education physics program at a four-year college or university in the state of Maryland. The AAT articulates with all Maryland transfer programs in secondary physics 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 physics to include mechanics, electricity, wave theory, and modern physics.

Program Advisors**Germantown**

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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

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Secondary Education–Physics AAT
ASSOCIATE OF ARTS IN TEACHING: 603

Secondary Education--Physics AAT

Associate of Arts in Teaching: 603

Suggested Course Sequence

This section is available on the catalog website at

<http://catalog.montgomerycollege.edu/content.php?catoid=9&navoid=1840>

First Semester

- **BIOL 150 - Principles of Biology I** 4 semester hours
- **OR**
- **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 (MATF)

Second Semester

- **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
- **PHYS 161 - General Physics I: Mechanics and Heat** 3 semester hours (NSND)
- **PSYC 102 - General Psychology** 3 semester hours (BSSD) **

Third Semester

- **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)
- **MATH 280 - Multivariable Calculus** 4 semester hours
- **PHYS 262 - General Physics II: Electricity and Magnetism** 4 semester hours
- **PSYC 216 - Adolescent Psychology** 3 semester hours

Fourth Semester

- **COMM 108 - Foundations of Human Communication** 3 semester hours (GEIR)
- **PHYS 263 - General Physics III: Waves, Optics, and Modern Physics** 4 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 101/101A if needed for ENGL 102. or elective

** Not PSYC course.

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

TEACHER EDUCATION TRANSFER PROGRAM
TEACHING IN SECONDARY EDUCATION - PHYSICS A.A.T.: 603

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.

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

GENERAL EDUCATION: DISTRIBUTION COURSES	Course	Hours	Grade
Arts Distribution (ARTD)	IS 273/ISTD 173	3	
Humanities Distribution (HUMD)	HS 201/HIST 200	3	
Behavioral & Social Sciences Distribution (BSSD)	PY 102/PSYC 102	3	
Behavioral & Social Sciences Distribution (BSSD not PSYC)**/*		3	
Natural Sciences Distribution with Lab (NSND)	PH 161/PHYS 161	3	
Natural Sciences Distribution with Lab (NSLD)	PH 262/PHYS 262	4	
General Education Institutional Requirement (GEIR)	SP 108/COMM108	3	
ARTD or HUMD*** (GEIR) Choose course from general education ARTD or HUMD. Discuss appropriate course choice with education faculty advisor.			

PROGRAM REQUIREMENTS	Course	Hours	Grade
ENGL 101 or ENGL 101A (if needed for ENGL102 or Elective)*			
		4	
	ED 101/EDUC 101	3	
	ED 102/EDUC 102	1	
	ED 140/EDUC 201	3	
	ED 141/EDUC 202	1	
	MA 182/MATH 182	4	
	MA 280/MATH 280	4	
	PH 263/PHYS 263	4	
	PY 216/PSYC 216	3	
	PY 227/PSYC 227	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

Last Modified: July 2018

[Education Web Page](#)

Advising Worksheet Contact:
[Anthony Solano](#)

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

**Behavioral and Social Science Distribution (BSSD) courses must come from a different discipline than PSYC.

*** One of these courses (ARTD, HUMD, BSSD) must meet the global/multicultural course requirement.

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 physics teacher, data analyst, applications engineer, aerospace and defense, physicist, engineer, science and telecommunications

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: