## SECONDARY EDUCATION - MATHEMATICS A.A.T. (TRANSFER)

Program website (https://frederick.edu/programs/education-child-care/ education.aspx)

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## Program Description

Designed for students planning to transfer to a mathematics teacher preparation program at a four-year college or university in the state of Maryland. Students planning to transfer out of the state should consult with Career and Academic Planning Services as well as an academic advisor at their transfer school of choice.

## Program Learning Outcomes

- Identify, apply and discuss major concepts, principles, and theories related to human development by completing one or more papers and projects based on observation of children and adolescents.
- Demonstrate knowledge of curriculum approaches and effective methods of teaching and learning through creating and presenting lesson plans applicable to course topics.
- Compose and collect artifacts (i.e. papers, projects) for current and future portfolios and participate in activities (i.e. case study experiences, interviews) to demonstrate how students differ in their development and approaches to learning.
- Demonstrate characteristics of future teachers by behaving professionally at events and experiences both on and off campus, utilizing college-level skills in course assignments, etc.
- Develop an initial knowledge base in future teaching content areas by successfully completing coursework in relevant areas.


## Program Requirements

| Code | Title | Credits |
| :---: | :---: | :---: |
| English |  |  |
| ENGL 101 | English Composition | 3 |
| Mathematics |  |  |
| MATH 185 | Calculus I | 4 |
| MATH 195 | Calculus II | 4 |
| Social \& Behavioral Sciences |  |  |
| PSYC 101 | General Psychology | 3 |
| EDUC 110 | Schools and Society | 3 |
| Arts \& Humanities |  |  |
| Arts Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/\#arts) |  | 3 |
| Communication Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/ general-education-core/\#communication) |  | 3 |
| Humanities Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/\#humanities) |  | 3 |
| Biological \& Physical Sciences |  |  |
| PHYS 151 | General Physics I | 4 |
| PHYS 252 | General Physics II | 4 |

[^0]| Wellness Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/\#wellness) |  | 3 |
| :---: | :---: | :---: |
| Computer Literacy Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/ general-education-core/\#computer) |  | 3 |
| Other Requirements |  |  |
| EDUC 220 | Educational Psychology | 3 |
| EDUC 230 | Foundations of Special Education (satisfies cultural competence requirement) | 3 |
| MATH 285 | Calculus III | 4 |
| MATH 265 | Linear Algebra (Fall) | 4 |
| PSYC 204 | Psychology of Adolescence | 3 |
| Electives - Select six credits of electives ${ }^{1}$ |  | 6 |
| Total Credits |  | 63 |

1
Recommended to include MATH 165 Precalculus or MATH 145 College Algebra, if needed, and PHYS 101 Survey of Physics if there has been no previous coursework in physics.

## A.A.T. Requirements

To earn the A.A.T., students must achieve either a) a 3.0 cumulative grade point average on a 4.0 scale $O R b$ ) a 2.75 cumulative grade point average on a 4.0 scale and qualifying scores on the basic skills assessments for teacher licensure as established by the State Superintendent of Schools and as approved by the State Board of Education (students must provide the Registrar's Office with qualifying scores on one of the state approved basic skills tests for future teachers) AND students must earn a "C" or better in all courses used to satisfy the A.A.T. requirements.

Students are strongly encouraged to consult with an academic advisor at their transfer institution as early as possible and should be aware that some colleges and universities may require higher GPAs and/or additional tests. Forty-five (45) hours of observation in a school based setting is required as part of the education degree coursework.

## Transfer Note

For more information on careers and transfer, contact the Career and Academic Planning Services office at 301.846 .2471 or visit Transfer Services (https://www.frederick.edu/student-resources/counseling-advising/transfer-services.aspx).

## Guided Pathway to Success (GPS)

Suggested schedules map your path to degree completion.
Students should meet with an advisor each semester to carefully select and sequence courses based on their specific academic goals and interests. Visit Jefferson Hall or call 301.846.2471 for advising.

| Recommended First Semester |  | Credits |
| :---: | :---: | :---: |
| ENGL 101 | English Composition ${ }^{1}$ | 3 |
| EDUC 110 | Schools and Society (Milestone) | 3 |
| MATH 185 | Calculus ${ }^{\text {1,2 }}$ | 4 |
| PSYC 101 | General Psychology | 3 |
| Wellness Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/ general-education-core/\#wellness) |  | 3 |
|  | Credits | 16 |
| Recommended Second Semester |  |  |
| MATH 195 | Calculus II (Milestone) | 4 |
| EDUC 230 | Foundations of Special Education | 3 |
| PSYC 204 | Psychology of Adolescence | 3 |
| Communication Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/\#communication) |  | 3 |


| Elective ${ }^{3}$ | 3 |
| :---: | :---: |
| Ensure that MSDE Testing Requirements are met: Praxis Core for Educators, ACT, SAT or GRE ${ }^{4}$ |  |
| Credits | 16 |
| Recommended Third Semester |  |
| Arts Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/\#arts) | 3 |
| MATH 265 Linear Algebra (Fall) | 4 |
| EDUC 220 Educational Psychology (Milestone) | 3 |
| PHYS 151 General Physics ${ }^{3}$ | 4 |
| Credits | 14 |
| Recommended Fourth Semester |  |
| PHYS 252 General Physics II | 4 |
| MATH 285 Calculus III | 4 |
| Elective ${ }^{3}$ | 3 |
| Humanities Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/ general-education-core/\#humanities) | 3 |
| Computer Literacy Elective (Gen Ed course list) (https://frederick-public.courseleaf.com/general-education-core/\#computer) | 3 |
| Credits | 17 |
| Total Credits | 63 |

1
Take this course within the first 24 credits.
2
Prerequisite: MATH 165 Precalculus
3
Recommend MATH 165 Precalculus or MATH 145 College Algebra in the first semester if needed, and PHYS 101 Survey of Physics if there has been no previous work in Physics.

4
The A.A.T. degree is designed to meet state requirements for the first two years of teacher education. To earn the A.A.T., students must achieve either a) a 3.0 cumulative grade point average on a 4.0 scale OR b) a 2.75 cumulative grade point average on a 4.0 scale and qualifying scores on the basic skills assessments for teacher licensure as established by the State Superintendent of Schools and as approved by the State Board of Education (students must provide the Registrar's Office with qualifying scores on one of the state approved basic skills tests for future teachers) AND students must earn a "C" or better in all courses used to satisfy the A.A.T. requirements.

Students are strongly encouraged to consult with an academic advisor at their transfer institution as early as possible and should be aware that some colleges and universities may require higher GPAs and/or additional tests. Forty-five (45) hours of observation in a school based setting is required as part of the education degree coursework.

## Part-time Students

Part-time students should complete courses in the order listed on the pathway. Please contact program manager for questions about part-time status.

Students who take fewer than 15 credits each semester or who require developmental English or Math coursework will need additional semesters to complete their degrees. Summer term and January session classes may help students to make faster progress.

## Pathway Legend

Milestone - courses with the Milestone notation should be taken within the recommend credit range to stay on track for program completion.

Fall, Spring, Summer - courses with a Fall, Spring, or Summer notation indicate the course is offered in the specified semester only.


[^0]:    Interdisciplinary \& Emerging Issues

