

ACADEMIC PATHWAYS



Sinclair College - Associate of Science Degree in Mathematics To

University of Dayton - Bachelor of Science in Education Major - Adolescence to Young Adult and Concentration - Integrated Mathematics

This Academic Pathway is to be used only by students who are formally admitted to the University of Dayton and enrolled in the UD-Sinclair Academy Program. Being a prospective transfer student from Sinclair College is not the same as a UD-Sinclair Academy student. Students interested in taking advantage of this Academic Pathway must apply to the Program through the UD-Sinclair Academy website at <https://www.udayton.edu/academy/index.php>.

*Students interested in the Associate of Arts degree as a pathway to the University of Dayton's Adolescent to Young Adult-Integrated Mathematics program **MUST** first meet with Dr. Wiebke Diestelkamp in the Department of Mathematics at the University of Dayton. She can be reached at 937-229-2511.*

| SUBJECT CODE | COURSE NUMBER | SINCLAIR CREDIT HOUR | COURSE TITLE | UD COURSE # | UD CREDIT HOUR |
|-------------------|--------------------------|----------------------|--|---------------------------|----------------|
| ART ART ART | 1110, 2230, 2231, | 3 | Art Appreciation Art History: Ancient-Medieval Art History: Renaissance-Contemporary | CAP Arts (See UD Advisor) | 3 |
| MUS MUS THE | 1121 1123, or 1101 | | Music Appreciation World Music Theatre Appreciation | | |
| CIS | 1111 | 3 | Introduction to Problem Solving and Computer Programming | CPS 149 | 3 |
| COM | 2206 or 2211 | 3 | Interpersonal Communication Effective Public Speaking | CMM 320 or CMM 351 | 3 |
| ENG | 1101 | 3 | English Composition I | ENG 100 | 3 |
| ENG | 1201 | 3 | English Composition II | ENG 200 | 3 |
| HIS | 1112 | 3 | Western Civilization II | HST 103 | 3 |
| MAT | 2270 | 5 | Calculus & Analytic Geometry I (See Advisor if prerequisite math courses are required) | MTH 168+1XX | 4+1 |
| MAT | 2280 | 5 | Calculus & Analytic Geometry II | MTH 169+1XX | 4+1 |
| MAT | 2290 | 5 | Calculus & Analytic Geometry III | MTH 218+2XX | 4+1 |
| MAT | 2310 | 4 | Elementary Differential Equations | MTH 219+2XX | 3+1 |
| MAT | 2320 | 3 | Linear Algebra | Elective (MTH 2XX) | 3 |
| PHI | 2205 or | 3 | Introduction to Philosophy | PHL 103 or | 3 |

ACADEMIC PATHWAYS



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|--------------|---------------|----------------------|--|---|----------------|
| | 2206 | | Introduction to Ethics | PHL 1XC | |
| PSY | 1100 | 3 | General Psychology | PSY 101 | 3 |
| REL | 1111 or 1112 | 3 | Eastern Religions Western Religions | REL 1XC or REL 103 | 3 |
| SCC | 1101 | 1 | First Year Experience | Elective (See Sinclair Advisor) | 1 |
| | | 10 | Two Ohio Transfer Module Natural Sciences Courses (from two different disciplines) | CAP Natural Science (See UD Advisor) | 10 |
| | | 3 | Ohio Transfer Module Social & Behavioral Sciences Course (Select one that is not Psychology) | Elective (See Sinclair Advisor) | 3 |
| TOTAL | | 63 | | | 63 |

- Students must meet with the advisor before acceptance into this program.
- **EDT 110 and Lab course, The Profession of Teaching, is required by the University of Dayton to be successfully completed by all students in the Department of Teacher Education. For current Sinclair students accepted into the UD-Sinclair Academy, this course may be taken at the University of Dayton, at no cost to the student, while still taking classes at Sinclair. The University of Dayton advisors can provide information regarding eligibility and registration. We strongly encourage Academy students to take EDT 110 and Lab at the University of Dayton prior to transitioning to the University of Dayton. Please note that EDT 110 and lab may also be used for Sinclair's EDU 1100 when required for the associate degree.**
- CPS 149 will meet computer requirement for Integrated Mathematics.
- COM 2206 or 2211 will meet the communication requirement at the University of Dayton with the completion of the Associate Degree. This exception applies to only UD-Sinclair Academy students. Consult with your UD advisor if you are eligible for this exception.
- PSY 1100 will meet the social science integrated course requirement at the University of Dayton with the completion of the Associate Degree.
- PHL 1XC at UD will substitute for PHL 103 requirement. This exception applies to only UD-Sinclair Academy students. Consult with your UD advisor if you are eligible for this exception.
- REL 1XC at UD will substitute for REL 103 requirement. This exception applies to only UD-Sinclair Academy students. Consult with your UD advisor if you are eligible for this exception.
- 124 hours minimum are required for BSE. Required GPA at the time of the Associate Degree is 3.0.
- 54 semester hours must be taken at a 4-year college or university, and the last 30 semester hours must be taken at the University of Dayton.
- Hours may change based on changes in licensure and/or program requirements.
- Students are strongly recommended to begin their University of Dayton programs fall term.

ACADEMIC PATHWAYS



- It is recommended that students take at least 15 hours per semester at Sinclair.
- Conflicts of times of courses may result in course changes in the last four terms at the University of Dayton.

Students are recommended to complete the following additional coursework at Sinclair in order to graduate in a timely manner from UD:

| SUBJECT CODE | COURSE NUMBER | SINCLAIR CREDIT HOUR | COURSE TITLE | UD COURSE # | UD CREDIT HOUR |
|--------------|---------------|----------------------|---|--------------------|----------------|
| HIS | 1101 or 1102 | 3 | United States History I United States History II | HST 251 or HST 252 | 3 |
| TOTAL | | 3 | | | 3 |

The following coursework will be required to complete the BSE, Integrated Mathematics program at the University of Dayton.

Please note: An additional Math course may be required to be taken at the University of Dayton or other four year college/university. (MTH 370 or MTH 395 are offered in specific years. MTH 395 is offered only in the fall semester of even-numbered years.)

FALL SEMESTER THIRD YEAR

| SUBJECT CODE | COURSE NUMBER | COURSE TITLE | CREDIT HOUR |
|--------------|---------------|---|-------------|
| EDT | 110 | The Profession of Teaching | 3 |
| EDT | 110L | The Profession of Teaching Laboratory | 0 |
| EDT | 222 | Middle Childhood to Young Adult Development in a Diverse Society | 3 |
| EDT | 222L | Middle Childhood to Young Adult Development in a Diverse Society Laboratory | 0 |
| EDT | 340 | (CAP Diversity & Social Justice and Crossing Boundaries: Integrative) Educating Diverse Student Populations in Inclusive Settings | 3 |
| EDT | 340L | Educating Diverse Student Populations in Inclusive Settings Laboratory | 0 |
| MTH | 308 | Foundations & Discrete Mathematics | 3 |
| MTH | 411 | Probability & Statistics I | 3 |
| TOTAL | | | 15 |

SPRING SEMESTER THIRD YEAR

ACADEMIC PATHWAYS



| SUBJECT CODE | COURSE NUMBER | COURSE TITLE | CREDIT HOUR |
|--------------|---------------|---|-------------|
| EDT | 338 | Teaching, Learning, and Management | 3 |
| EDT | 338L | Teaching, Learning, and Management Laboratory | 0 |
| MTH | 310 | Linear Algebra & Matrices | 3 |
| MTH | 361 | Introduction to Abstract Algebra | 3 |
| MTH | 370 | Introduction to Higher Geometry (or Spring Fourth Year) | 3 |
| | | CAP Crossing Boundaries: Faith Traditions and Advanced Philosophical/Religious Studies | 3 |
| TOTAL | | | 15 |

FALL SEMESTER FOURTH YEAR (Even-numbered years)

Please note that a math course may need to be taken fall term after graduation to complete licensure requirements.

| SUBJECT CODE | COURSE NUMBER | COURSE TITLE | CREDIT HOUR |
|--------------|---------------|--|-------------|
| EDT | 432 | Integrated Mathematics Methods for Adolescence to Young Adult & Lab | 3 |
| EDT | 432L | Integrated Mathematics Methods for AYA (7-12) Field Internship | 1 |
| EDT | 459 | Critical Reading and Writing in the Content Area | 3 |
| EDT | 481 | Adolescence to Young Adult Assessment | 3 |
| MTH | 330 | Intermediate Analysis | 3 |
| MTH | 395 | Development of Mathematical Ideas | 3 |
| TOTAL | | | 16 |

SPRING SEMESTER FOURTH YEAR

| SUBJECT CODE | COURSE NUMBER | COURSE TITLE | CREDIT HOUR |
|--------------|---------------|---|-------------|
| | | (CAP Crossing Boundaries: Practical Ethical Action and Advanced Philosophical Studies) | |
| EDT | 305 | Philosophy & History of American Education | 3 |
| EDT | 436 | AYA Capstone Seminar (CAP Capstone) | 3 |
| EDT | 475 | Student Teaching | 12 |
| TOTAL | | | 18 |

- Review your DegreeWorks audit with your UD academic advisor to fully understand the remaining degree requirements and specific course options.