

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 SCIENCE DEGREE AS A PATHWAY TO THE UNIVERSITY OF DAYTON'S 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	1110, 2231,	3	Art Appreciation Art History - Renaissance through Contemporary Periods	CAP Arts Elective (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	4
MAT	2280	5	Calculus & Analytic Geometry II	MTH 169	4
MAT	2290	5	Calculus & Analytic Geometry III	MTH 218	4
MAT	2310	4	Elementary Differential Equations	MTH 219	3
MAT	2320	3	Linear Algebra	Elective	3
PHI	2205 or 2206	3	Introduction to Philosophy Introduction to Ethics	PHL 103 or PHL 1XC	3
PSY	1100***	3	General Psychology	PSY 101	3
REL	1111 or	3	Eastern Religions	REL 1XC or	3

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SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
	1112		Western Religions	REL 103	
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)	8
		3	Ohio Transfer Module Social & Behavioral Sciences Course (Select one that is not Psychology)	Elective (See Sinclair and UD Advisors)	3
TOTAL		63			57

- ***This credit 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.**
- **Students must meet with the advisor before acceptance into this program.**
- **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.**
- **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	3	United States History I	HST 251 or	3

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SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
	1102		United States History II	HST 252	
TOTAL		3			3

The following additional 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 Crossing Boundaries: Integrative and Diversity & Social Justice) 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

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	3

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		(or Spring Fourth Year)	
		CAP Crossing Boundaries: Faith Traditions and Advanced Philosophical or 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
EDT	305	(CAP Crossing Boundaries: Practical Ethical Action and Advanced Philosophical Studies) 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.