

ACADEMIC PATHWAYS



Sinclair College –Associate of Science Degree in Mathematics To University of Dayton – Bachelor of Arts Major – 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>.

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
*BIO CHE PHY	1171 or 1211** or 2201	5	Principles of Biology I General Chemistry I General Physics I	BIO 151+151L or CHM 1GF+1GFL or PHY 206+210L	4
*BIO CHE PHY	1272 or 1221** or 2202	5	Principles of Biology II General Chemistry II General Physics II	BIO 152+152L or CHM 1GS+1GSL or PHY 207+211L	4
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
LIT	2201, 2202, 2211, 2212, or 2230	3	British Literature I British Literature II American Literature I American Literature II Great Books of the Western World	ENG 301, ENG 302, ENG 303, ENG 304, or ENG 205	3
MAT	2270	5	Calculus & Analytic Geometry I	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 or 2600****	3-4	Elementary Differential Equations or Applied Statistics	MTH 219 or MTH 2XX	3
MAT	2320	3	Linear Algebra	MTH 2XX	3
PHI	2205 or 2206	3	Introduction to Philosophy Introduction to Ethics	PHL 103 or PHL 1XC	3
PSY	1100 ¹	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	ASI 150	1
SOC	1101 ¹	3	Introduction to Sociology	SOC 101	3
SOC	1145	3	Introduction to Cultural Anthropology	ANT 150	3
TOTAL		62-63			57

- ***Select one natural science discipline and take the second course in the same discipline area chosen for the first course.**
- ****Completion of both CHE 1211 and CHE 1221 are required for transfer credit. Consult with Sinclair College Advisor for course sequencing.**
- *****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.**
- ******Students are strongly recommended to take MAT 2310 Elementary Differential Equations because depending on their Mathematics Elective courses they select at UD, some of the courses require MTH 219 (UD's course equivalent to MAT 2310) course.**
- **¹PSY 1100 or SOC 1101 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 a BA degree at UD. Required GPA at the time of the Associate Degree is 3.0.**

FALL SEMESTER YEAR 1

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
ENG	1101	3	English Composition I	ENG 100	3
HIS	1112	3	Western Civilization II	HST 103	3
MAT	2270	5	Calculus & Analytic Geometry I	MTH 168	4
REL	1111 or 1112	3	Eastern Religions Western Religions	REL 1XC or REL 103	3
SCC	1101	1	First Year Experience	ASI 150	1
TOTAL		15			14

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- 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.

SPRING SEMESTER YEAR 1

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
ENG	1201	3	English Composition II	ENG 200	3
MAT	2280	5	Calculus & Analytic Geometry II	MTH 169	4
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
SOC	1101*	3	Introduction to Sociology	SOC 101	3
TOTAL		17			17

- *PSY 1100 or SOC 1101 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.

FALL SEMESTER YEAR 2

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
BIO CHE PHY	1171 or 1211* or 2201	5	Principles of Biology I General Chemistry I General Physics I	BIO 151+151L or CHM 1GF+1GFL or PHY 206+210L	4
COM	2206 or 2211****	3	Interpersonal Communication Effective Public Speaking	CMM 320 or CMM 351	3
MAT	2290	5	Calculus & Analytic Geometry III	MTH 218	4
SOC	1145	3	Introduction to Cultural Anthropology	ANT 150	3
TOTAL		16			14

- **Select one natural science discipline and take the second course in the same discipline area chosen for the first course.
- ***Completion of both CHE 1211 and CHE 1221 are required for transfer credit. Consult with Sinclair College Advisor for course sequencing.

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- ****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.

SPRING SEMESTER YEAR 2

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
BIO CHE PHY	1171 or 1211* or 2201	5	Principles of Biology I General Chemistry I General Physics I	BIO 151+151L or CHM 1GF+1GFL or PHY 206+210L	4
LIT	2201, 2202, 2211, 2212, or 2230	3	British Literature I British Literature II American Literature I American Literature II Great Books of the Western World	ENG 301, ENG 302, ENG 303, ENG 304, or ENG 205	3
MAT	2310 or 2600 ¹	3-4	Elementary Differential Equations Applied Statistics	MTH 219 or MTH 2XX	3
MAT	2320	3	Linear Algebra	MTH 2XX	3
TOTAL		14-15			13

- **Select one natural science discipline and take the second course in the same discipline area chosen for the first course.
- ***Completion of both CHE 1211 and CHE 1221 are required for transfer credit. Consult with Sinclair College Advisor for course sequencing.
- ¹Students are strongly recommended to take MAT 2310 Elementary Differential Equations because depending on their Mathematics Elective courses they select at UD, some of the courses require MTH 219 (UD's course equivalent to MAT 2310) course.

Remaining Courses to Be Completed at UD for BA in Mathematics Sample Curriculum ¹			
Fall Semester Third Year		Spring Semester Third Year	
Course	Credit Hours	Course	Credit Hours
MTH 308	3	MTH 310	3
MTH 411	3	MTH 361	3
CAP Arts	3	CAP Crossing Boundaries: Integrative	3
Natural Science	3	Creative and Performing Arts	3

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Remaining Courses to Be Completed at UD for BA in Mathematics Sample Curriculum ¹			
Foreign Language 101	4	Foreign Language 141	4
TOTAL	16	TOTAL	16
Fall Semester Fourth Year		Spring Semester Fourth Year	
Course	Credit Hours	Course	Credit Hours
MTH 330	3	MTH 480 (Capstone)	1
MTH Elective	3	MTH Elective	3
CAP Crossing Boundaries: Practical Ethical Action	3	MTH Elective	3
CAP Advanced Historical Studies	3	CAP Advanced Religious Studies	3
CAP Advanced Philosophical Studies	3	CAP Crossing Boundaries: Faith Traditions	3
Foreign Language 201 or Contextual Course	3	Social Science 300/400 Level	3
TOTAL	18	TOTAL	18

- ¹The above is a sample curriculum guide. Review your DegreeWorks audit with your UD academic advisor to fully understand the remaining degree requirements and specific course options.