

ACADEMIC PATHWAYS



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

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOUR	UD COURSE #
COM	2206 or 2211*	Interpersonal Communication Effective Public Speaking	3	CMM 320 or CMM 351
ENG	1101	English Composition I	3	ENG 100
ENG	1201	English Composition II	3	ENG 200
HIS	1112	Western Civilization II	3	HST 103
LIT	2201 or 2202 or 2211 or 2212 or 2230	British Literature I British Literature II American Literature I American Literature II Great Books of the Western World	3	ENG 301 or ENG 302 or ENG 303 or ENG 304 or ENG 205
MAT	2270	Calculus & Analytic Geometry I	5	MTH 168
MAT	2280	Calculus & Analytic Geometry II	5	MTH 169
MAT	2290	Calculus & Analytic Geometry III	5	MTH 218
MAT	2310 or 2600**	Elementary Differential Equations or Applied Statistics	3-4	MTH 219 or MTH 2XX
MAT	2320	Linear Algebra	3	MTH 2XX
PHI	2205 or 2206	Introduction to Philosophy Introduction to Ethics	3	PHL 103
PHY	2201	General Physics I	5	PHY 206 & 210L
PHY	2202	General Physics II	5	PHY 207 & 211L
PSY	1100***	General Psychology	3	PSY 101
REL	1111 or 1112	Eastern Religions Western Religions	3	REL 103
SCC	1101	First Year Experience	1	ASI 150
SOC	1101***	Introduction to Sociology	3	SOC 101
SOC	1145	Introduction to Cultural Anthropology	3	ANT 150
TOTAL			62-63	

- *COM 2206 or 2211 will meet the communication requirement at the University of Dayton with the completion of the Associate Degree.

ACADEMIC PATHWAYS



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

SPRING SEMESTER YEAR 1

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOUR	UD COURSE #
ENG	1201	English Composition II	3	ENG 200
MAT	2280	Calculus & Analytic Geometry II	5	MTH 169
PHI	2205 or 2206	Introduction to Philosophy Introduction to Ethics	3	PHL 103
PHY	2201	General Physics I	5	PHY 206 & 210L
TOTAL			16	

FALL SEMESTER YEAR 2

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOUR	UD COURSE #
COM	2206 or 2211*	Interpersonal Communication Effective Public Speaking	3	CMM 320 or CMM 351
MAT	2290	Calculus & Analytic Geometry III	5	MTH 218
PHY	2202	General Physics II	5	PHY 207 & 211L

ACADEMIC PATHWAYS



SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOUR	UD COURSE #
SOC	1145	Introduction to Cultural Anthropology	3	ANT 150
TOTAL			16	

- ***COM 2206 or 2211 will meet the communication requirement at the University of Dayton with the completion of the Associate Degree.**

SPRING SEMESTER YEAR 2

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOUR	UD COURSE #
MAT	2310 or 2600**	Elementary Differential Equations Applied Statistics	3-4	MTH 219 or MTH 2XX
MAT	2320	Linear Algebra	3	MTH 2XX
LIT	2201 or 2202 or 2211 or 2212 or 2230	British Literature I British Literature II American Literature I American Literature II Great Books of the Western World	3	ENG 301 or ENG 302 or ENG 303 or ENG 304 or ENG 205
PSY	1100***	General Psychology	3	PSY 101
SOC	1101***	Introduction to Sociology	3	SOC 101
TOTAL			15-16	

- ****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.**
- *****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.**

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

ACADEMIC PATHWAYS



Remaining Courses to Be Completed at UD for BA in Mathematics Sample Curriculum ¹			
Natural Science	3	CAP Creative and Performing Arts	3
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.**