

ACADEMIC PATHWAYS



**Sinclair College – Associate of Science Degree in Biology
To
University of Dayton – Bachelor of Science
Major – Biology or Environmental Biology**

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	1171	5	Principles of Biology I	BIO 151+151L	4
BIO	1272	5	Principles of Biology II	BIO 152+152L	4
BIO	2222*	3	Evolution	BIO 301	3
BIO	2225*	4	Ecology	BIO 310+310L	4
BIO	2235*	4	Genetics	BIO 312+312L	4
CHE	1211**	5	General Chemistry I	CHM 1GF+1GFL	4
CHE	1221**	5	General Chemistry II	CHM 1GS+1GSL	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
MAT	1580 or 2270	5	Precalculus Calculus & Analytic Geometry I (Depending on the Placement Level)	MTH 116 or MTH 168	4
MET	1131	1	Personal Computer Applications for Engineering Technology	CPS 1XX	1
PHI	2205 or 2206	3	Introduction to Philosophy Introduction to Ethics	PHL 103 or PHL 1XC	3
PLS PSY	1120 or 1100****	3	American Federal Government General Psychology	POL 201 or PSY 101	3
REL	1111 or 1112	3	Eastern Religions Western Religions	REL 1XC or REL 103	3
SCC	1101	1	First Year Experience	ASI 150	1

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SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
SOC	1145	3	Introduction to Cultural Anthropology	ANT 150	3
TOTAL		62			57

- ***Students must complete BIO 1171 and 1272 with a grade of C or higher prior to registering for BIO 2222, 2225, and 2235 in order to be granted the respective UD equivalent course that is included in this Pathway.**
- ****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.**
- ******PLS 1120 or 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.**
- **120 hours minimum are required for a BS 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
BIO	1171	5	Principles of Biology I	BIO 151+151L	4
CHE	1211*	5	General Chemistry I	CHM 1GF+1GFL	4
MAT	1580 or 2270	5	Precalculus Calculus & Analytic Geometry I (Depending on the Placement Level)	MTH 116 or MTH 168	4
TOTAL		15			12

- ****Completion of both CHE 1211 and CHE 1221 are required for transfer credit. Consult with Sinclair College Advisor for course sequencing.**

SPRING SEMESTER YEAR 1

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SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
BIO	1272	5	Principles of Biology II	BIO 152+152L	4
CHE	1221*	5	General Chemistry II	CHM 1GS+1GSL	4
ENG	1101	3	English Composition I	ENG 100	3
MET	1131	1	Personal Computer Applications for Engineering Technology	CPS 1XX	1
SCC	1101	1	First Year Experience	ASI 150	1
TOTAL		15			13

- *Completion of both CHE 1211 and CHE 1221 are required for transfer credit. Consult with Sinclair College Advisor for course sequencing.

FALL SEMESTER YEAR 2

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
BIO	2222**	3	Evolution	BIO 301	3
BIO	2225**	4	Ecology	BIO 310+310L	4
ENG	1201	3	English Composition II	ENG 200	3
PLS PSY	1120 or 1100***	3	American Federal Government General Psychology	POL 201 or PSY 101	3
SOC	1145	3	Introduction to Cultural Anthropology	ANT 150	3
TOTAL		16			16

- **Students must complete BIO 1171 and 1272 with a grade of C or higher prior to registering for BIO 2222, 2225, and 2235 in order to be granted the respective UD equivalent course that is included in this Pathway.
- ***PLS 1120 or PSY 1100 will meet the social science integrated course requirement at the University of Dayton with the completion of the Associate Degree.

SPRING SEMESTER YEAR 2

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
BIO	2235**	4	Genetics	BIO 312+312L	4
COM	2206 or 2211****	3	Interpersonal Communication Effective Public Speaking	CMM 320 or CMM 351	3

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SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
HIS	1112	3	Western Civilization II	HST 103	3
PHI	2205 or 2206	3	Introduction to Philosophy Introduction to Ethics	PHL 103 or PHL 1XC	3
REL	1111 or 1112	3	Eastern Religions Western Religions	REL 1XC or REL 103	3
TOTAL		16			16

- ****Students must complete BIO 1171 and 1272 with a grade of C or higher prior to registering for BIO 2222, 2225, and 2235 in order to be granted the respective UD equivalent course that is included in this Pathway.**
- ******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.**
- **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 complete the following additional coursework at Sinclair in order to graduate in a timely manner from UD:

BIOLOGY

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
CHE	2111	5	Organic Chemistry I	CHM 313+313L	4
CHE	2121	5	Organic Chemistry II	CHM 314+314L	4
TOTAL		10			8

ENVIRONMENTAL BIOLOGY

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
CHE	2111	5	Organic Chemistry I	CHM 313+313L	4
GLG	1101	4	Physical Geology	GEO 115+115L	4
TOTAL		9			8

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BIOLOGY

Remaining Courses to Be Completed at UD for BS in Biology Sample Curriculum ¹			
Third Year (Fall Semester)		Third Year (Spring Semester)	
Course	Credit Hours	Course	Credit Hours
BIO 299	1	PHY 202	3
MTH 148 (if MAT 2270 was not completed at Sinclair) or 149 or 169 (if MAT 2270 was completed at Sinclair)	3	PHY 202L	1
PHY 201	3	BIO Elective Env/Eco with Lab	4
PHY 201L	1	CAP Advanced Philosophical or Religious Studies	3
BIO Elective with Lab	4	CAP Advanced Historical Studies	3
CAP Crossing Boundaries: Faith Traditions	3	Social & Behavioral Sciences	3
TOTAL	15	TOTAL	17
Fourth Year (Fall Semester)		Fourth Year (Spring Semester)	
Course	Credit Hours	Course	Credit Hours
BIO 462	3	BIO 420 (Capstone)	1
BIO Elective Biomed with Lab	4	BIO Elective with Lab	4
BIO Elective	3	BIO Elective	3
CAP Crossing Boundaries: Integrative	3	BIO Elective Env/Eco	3
CAP Crossing Boundaries: Practical Ethical Action	3	CAP Advanced Philosophical or Religious Studies	3
TOTAL	16	CAP Arts	3
		TOTAL	17

- 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.

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ENVIRONMENTAL BIOLOGY

Remaining Courses to Be Completed at UD for BS in Environmental Biology Sample Curriculum ¹			
Third Year (Fall Semester)		Third Year (Spring Semester)	
Course	Credit Hours	Course	Credit Hours
BIO 299	1	GEO 116	3
MTH 207	3	MTH 148 (if MAT 2270 was not completed at Sinclair) or 149 or 169 (if MAT 2270 was completed at Sinclair)	3
PHY 201	3	Environmental & Ecological Lecture	3
PHY 201L	1	Environmental & Ecological Lecture	3
Environmental & Ecological Lecture	3	Environmental & Ecological Lab	1
CAP Arts	3	CAP Advanced Historical Studies	3
CAP Crossing Boundaries: Faith Traditions	3		
TOTAL	17	TOTAL	16
Fourth Year (Fall Semester)		Fourth Year (Spring Semester)	
Course	Credit Hours	Course	Credit Hours
BIO 479L	2	BIO 420 (Capstone)	1
GEO 450	4	BIO 499	3
Environmental & Ecological Lecture	3	Environmental & Ecological Lecture	3
Environmental & Ecological Lab	1	Environmental & Ecological Lab	1
Biology or Environmental & Ecological Lab	1	Biology Elective	3-4
CAP Crossing Boundaries: Practical Ethical Action and Advanced Philosophical/Religious Studies	3	CAP Crossing Boundaries: Integrative	3

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Remaining Courses to Be Completed at UD for BS in Environmental Biology Sample Curriculum¹			
Social & Behavioral Science	3	CAP Advanced Philosophical or Religious Studies	3
TOTAL	17	TOTAL	17-18

- 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.