



Sinclair College – Associate of Science Degree in Chemistry **University of Dayton - Bachelor of Science** Major – Biochemistry

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
CHE	1211*	5	General Chemistry I	CHM 1GF+1GFL	4
CHE	1221*	5	General Chemistry II	CHM 1GS+1GSL	4
CHE	2111	5	Organic Chemistry I	CHM 313 + CHM 313L	4
CHE	2121	5	Organic Chemistry II	CHM 314 + CHM 314L	4
COM	2206 or	3	Interpersonal Communication	CMM 320 or	3
	2211**		Effective Public Speaking	CMM 351	
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	MTH 168	4
MAT	2280	5	Calculus & Analytic Geometry II	MTH 169	4
MAT	2290 or	4-5	Calculus & Analytic Geometry III	MTH 218 or	4
PHY	1141***		College Physics I	PHY 201+201L	
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
PSY	1100****	3	General Psychology	PSY 101	3
SCC	1101	1	First Year Experience	ASI 150	1
SOC	1101****	3	Introduction to Sociology	SOC 101	3
SOC	1145	3	Introduction to Cultural	ANT 150	3
			Anthropology		
TOTAL		60-61			54



- This Associate of Science in Chemistry from Sinclair College is designed for students considering a major in Biochemistry, Chemistry (Bachelor of Arts or Bachelor of Science), or Medicinal-Pharmaceutical Chemistry program at UD.
- *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.
- ***MAT 2290 (equivalent to MTH 218 at UD) is required for only Biochemistry (BS) and Chemistry (BS) majors. Students interested in Medicinal-Pharmaceutical Chemistry (BS) or Chemistry (BA) program should take PHY 1141, instead, to complete an associate degree at Sinclair.
- ****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.
- 124 hours minimum are required for a BA degree and 120 hours minimum for a BS degree at UD. Required GPA at the time of the Associate Degree is 3.0.

Students must 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
PHY	1141 or	4-5	College Physics I	PHY 201+201L or	4
	22011		General Physics I	PHY 206+210L	
PHY	1142 or	4-5	College Physics II	PHY 202+202L or	4
	22021		General Physics II	PHY 207+211L	
REL	1111,	3	Eastern Religions	REL 1XC,	3
	1112,		Western Religions	REL 103,	
	2204, or		Great Books: The Bible &	REL 1XC, or	
	2255		Western Culture	REL 1XC	
			People and Religion		
TOTAL		11-13			11

- ¹Students interested in Chemistry (BA degree) and Medicinal-Pharmaceutical Chemistry will complete PHY 1141+1142; students interested in Chemistry (BS degree) and Biochemistry will complete PHY 2201+2202. If students are undecided on a specific chemistry degree at UD, complete PHY 2201+2202.
- 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.





FALL SEMESTER YEAR 1

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
CHE	1211*	5	General Chemistry I	CHM 1GF+1GFL	4
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
SCC	1101	1	First Year Experience	ASI 150	1
TOTAL		17			15

• *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

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
CHE	1221*	5	General Chemistry II	CHM 1GS+1GSL	4
ENG	1201	3	English Composition II	ENG 200	3
MAT	2280	5	Calculus & Analytic Geometry II	MTH 169	4
SOC	1101**	3	Introduction to Sociology	SOC 101	3
TOTAL		16			14

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

FALL SEMESTER YEAR 2

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
CHE	2111	5	Organic Chemistry I	CHM 313+313L	4
COM	2206 or	3	Interpersonal Communication	CMM 320 or	3
	2211***		Effective Public Speaking	CMM 351	
MET	1131	1	Personal Computer Applications	CPS 1XX	1
			for Engineering Technology		
PSY	1100**	3	General Psychology	PSY 101	3

2020-2021 Articulation Agreement (07.01.2020)



SUBJECT	COURSE	SINCLAIR	COURSE TITLE	UD COURSE #	UD
CODE	NUMBER	CREDIT			CREDIT
		HOUR			HOUR
TOTAL		12			11

- **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.
- ***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
CHE	2121	5	Organic Chemistry II	CHM 314 +	4
				CHM 314L	
MAT	2290 or	4-5	Calculus & Analytic Geometry III	MTH 218 or	4
PHY	1141****		College Physics I	PHY 201+201L	
PHI	2205 or	3	Introduction to Philosophy	PHL 103 or	3
	2206		Introduction to Ethics	PHL 1XC	
SOC	1145	3	Introduction to Cultural	ANT 150	3
			Anthropology		
TOTAL		15-16			14

- ****MAT 2290 (equivalent to MTH 218 at UD) is required for only Biochemistry (BS) and Chemistry (BS) majors. Students interested in Medicinal-Pharmaceutical Chemistry (BS) or Chemistry (BA) program should take PHY 1141, instead, to complete an associate degree at Sinclair.
- 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.

Remaining Courses to Be Completed at UD for BS in Biochemistry Sample Curriculum ²							
Fall Semester Third Year Spring Semester Third Year							
Course	Credit Hours	Course	Credit Hours				
BIO 151	3	BIO 152	3				
BIO 151L	1	CPS 132	3				





Remaining Courses to Be Completed at UD for BS in Biochemistry Sample Curriculum ²					
CHM 201	3	CAP Crossing Boundaries:	3		
		Integrative			
CHM 201L	1	CAP Advanced Religious	3		
		Studies			
CAP Arts	3	Foreign Language 141	4		
CAP Advanced Historical	3				
Studies					
Foreign Language 101	4				
TOTAL	18	TOTAL	16		
Fall Semester Fourth Year		Spring Semester Fourth Year			
Course	Credit	Course	Credit		
	Hours		Hours		
CHM 303	3	CHM 304	3		
CHM 303L	1	CHM 452	3		
CHM 451	3	CHM 462L	1		
CHM 480	1	CHM 490 (Capstone)	1		
BIO Elective with Lab	4	CHM 495	0		
BIO/CHM Elective	3	CHM 497	0		
CAP Crossing Boundaries:	3	BIO/CHM Elective	3		
Faith Traditions					
		BIO Elective with Lab	4		
		CAP Crossing Boundaries:	3		
		Practical Ethical Action and			
		Advanced Philosophical			
		Studies			
TOTAL	18	TOTAL	18		

• ²The 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.