ACADEMIC PATHWAYS



Sinclair College – Associate of Science in Engineering and Engineering Technology University

Transfer

To

University of Dayton - Bachelor of Science in Computer Engineering

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	COURSE TITLE	UD COURSE #	UD CREDIT
		HOUR			HOUR
CHE	1211	5	General Chemistry I	CHM 1GF+	3+1+1
				1GFL+1XX*	
COM	2206 or	3	Interpersonal Communication	CMM 320 or	3
	2211**		Effective Public Speaking	CMM 351	
EGR	2131	4	Engineering Digital Design	ECE 215+215L	4
EGR	2201	4	Circuit Analysis	ECE 201+201L	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+1
				1XX	
MAT	2280	5	Calculus & Analytic Geometry II	MTH 169+	4+1
				1XX	
MAT	2310	4	Elementary Differential Equations	MTH 219+	3+1
				2XX	
MEE	2101	3	Statics for Engineers	EGR 201	3
MEE	2201	3	Thermodynamics for Engineers	EGR 202	3
PHI	2205 or	3	Introduction to Philosophy	PHL 103 or	3
	2206		Introduction to Ethics	PHL 1XC	
PHY	2201	5	General Physics I	PHY 206+210L	3+1+1
				+2XX	
PHY	2202***	5	General Physics II	PHY 232+2XX	3+2
		6	Select Two Social Science		6
			Courses from:		
ECO	2180,		Principles of Microeconomics	ECO 203,	
ECO	2160,		Principles of Macroeconomics	ECO 204,	
PLS	1120,		American Federal Government	POL 201,	
PSY	1100, or		General Psychology	PSY 101, or	
SOC	1101****		Introduction to Sociology	SOC 101	
TOTAL		61			61

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- *CHE 1211 will substitute for CHM 123+123L requirement for Computer Engineering Program.
- **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.
- ***PHY 2202 will substitute for PHY 232 requirement for Computer Engineering Program.
- ****ECO 2160, ECO 2180, PLS 1120, PSY 1100, or SOC 1101 will meet the social science integrated course requirement at the University of Dayton with the completion of 30 credit hours.
- 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.
- 134 hours minimum are required for a BS (Bachelor of Science in Computer Engineering) degree at UD. Required GPA at the time of transfer 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
CIS	2207	3	Data Structures & Algorithms	CPS 350	3
CIS	2212,	9	Java Software Development I	CPS 150+151+	4+4+1
	2217, and		Java Software Development II	1XX	
	2266 ¹		Python for Data Analytics		
EET	2201	5	Electronic Devices & Circuits	ECE 204+204L	3+1+1
				+2XX	
ENG	1201	3	English Composition II	ENG 200	3
MAT	2290	5	Calculus & Analytic Geometry III	MTH 218+2XX	4+1
MAT	2570	4	Discrete Mathematics	CPS 341+2XX	3+1
PHY	2210 ²	3	MATLAB for Scientists &	ECE 203+2XX	1+2
			Engineers		
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		35			35

• Completion of all three courses (CIS 2212, 2217 and 2266) will be granted equivalent courses as CPS 150 and 151.

2019-2020 Articulation Agreement (07.01.2019)

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- ²PHY 2210 will substitute for ECE 203 requirement for Computer Engineering Program.
- 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.

UDSA Computer Engineering Pathway – 4 Semester Plan for UD							
Semester 5		Semester 6					
Fall	CR	Spring	CR				
ECE 303	3	CPS 356	3				
ECE 303L	1	ECE 300	0				
ECE 314	3	ECE 304	3				
ECE 314L	1	ECE 304L	1				
EGR 103	2	ECE 334	3				
Approved CAP	3	Approved CAP	3				
Course		Course					
TOTAL	13	TOTAL	13				
Semester 7		Semester 8					
Fall	CR	Spring	CR				
CPS 444	3	ECE 340	3				
ECE 431L	2	ECE 432L	3				
		(Capstone)					
ECE Adv	3	TECH EL	3				
Digital EL							
TECH EL	3	TECH EL	3				
Approved CAP	3	Approved CAP	3				
Course		Course					
TOTAL	14	TOTAL	15				

• Review your DegreeWorks audit with your UD academic advisor to fully understand the CAP course requirements, remaining degree requirements, and specific course options.