

# ACADEMIC PATHWAYS



## Sinclair College – Associate of Science in Engineering and Engineering Technology University Transfer To University of Dayton - Bachelor of Electrical 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 HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
CHE	1211	5	General Chemistry I	CHM 1GF+ 1GFL+1XX*	3+1+1
COM	2206 or 2211**	3	Interpersonal Communication Effective Public Speaking	CMM 320 or CMM 351	3
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+ 1XX	4+1
MAT	2280	5	Calculus & Analytic Geometry II	MTH 169+ 1XX	4+1
MAT	2310	4	Elementary Differential Equations	MTH 219+ 2XX	3+1
MEE	2101	3	Statics for Engineers	EGR 201	3
MEE	2201	3	Thermodynamics for Engineers	EGR 202	3
PHI	2205 or 2206	3	Introduction to Philosophy Introduction to Ethics	PHL 103 or PHL 1XC	3
PHY	2201	5	General Physics I	PHY 206+210L +2XX	3+1+1
PHY	2202***	5	General Physics II	PHY 232+ 2XX	3+2
ECO ECO PLS PSY SOC	2180, 2160, 1120, 1100, or 1101****	6	<b>Select Two Social Science Courses from:</b> Principles of Microeconomics Principles of Macroeconomics American Federal Government General Psychology Introduction to Sociology	ECO 203, ECO 204, POL 201, PSY 101, or SOC 101	6

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SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
<b>TOTAL</b>		<b>61</b>			<b>61</b>

- **\*CHE 1211 will substitute for CHM 123+123L requirement for Electrical 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 Electrical 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 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 BLE (Bachelor of Electrical 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	2212 and 2217 <sup>1</sup>	3+3	Java Software Development I Java Software Development II	CPS 150+ CPS 1XX	4+2
EET	2201	5	Electronic Devices & Circuits	ECE 204+204L +2XX	3+1+1
ENG	1201	3	English Composition II	ENG 200	3
MAT	2290	5	Calculus & Analytic Geometry III	MTH 218+2XX	4+1
PHY	2210 <sup>2</sup>	3	MATLAB for Scientists & Engineers	ECE 203+2XX	1+2
REL	1111, 1112, 2204, or 2255	3	Eastern Religions Western Religions Great Books: The Bible & Western Culture People and Religion	REL 1XC, REL 103, REL 1XC, or REL 1XC	3
<b>TOTAL</b>		<b>25</b>			<b>25</b>

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- <sup>1</sup>Both CIS 2212 and 2217 must be completed to earn credit for CPS 150.
- <sup>2</sup>PHY 2210 will substitute for ECE 203 requirement for Electrical 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 Electrical Engineering Pathway – 4 Semester Plan for UD				
Semester 5 Fall	CR		Semester 6 Spring	CR
ECE 303	3		ECE 300	0
ECE 303L	1		ECE 304	3
ECE 314	3		ECE 304L	1
ECE 314L	1		ECE 333	3
ECE 332	3		ECE 334	3
EGR 103	2		ECE 340	3
MATH EL	3		Approved CAP Course	3
<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>16</b>
Semester 7 Fall	CR		Semester 8 Spring	CR
ECE 401	3		ECE 432L (Capstone)	3
ECE 401L	1		TECH EL	3
ECE 415	3		TECH EL	3
ECE 431L	2		Approved CAP Course	3
TECH EL	3		Approved CAP Course	3
TECH EL	3			
Approved CAP Course	3			
<b>TOTAL</b>	<b>18</b>		<b>TOTAL</b>	<b>15</b>

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