

ACADEMIC PATHWAYS



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

To

University of Dayton - Bachelor of Science in Engineering Technology
Major - Mechanical Engineering Technology

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	1101	4	Introductory Mathematics for Engineering Applications	SET 150+1XX	2+2
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
MET	1301	4	SolidWorks Basics	MCT 110L+1XX	2+2
PHI	2205 or 2206	3	Introduction to Philosophy Introduction to Ethics	PHL 103 or PHL 1XC	3
PHY	1141	4	College Physics I	PHY 201+201L	4
PHY	1142	4	College Physics II	PHY 202+202L	4
ECO ECO PLS PSY SOC	2180, 2160, 1120, 1100, or 1101***	6	Select Two Ohio Transfer Module Social Science Courses from Two Different Disciplines: 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
			Major Elective - Complete 12-15 Sinclair Hours from:		

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CAM	1109	3	Fundamentals of Tooling and Machining	MFG 108L+ 1XX	1+2
EET	1150+1155	4+3	DC Circuits and AC Circuits	ECT 110+110L +1XX	3+1+3
MAT	1450	4	Introductory Statistics	MTH 207+1XX	3+1
MET	1161	1	Software Tools for Engineering Technology	MCT 1XX	1
MET	2101	3	Thermodynamics	MCT 342	3
MET	2201	3	Statics	MCT 215	3
MET	2251	3	Strength of Materials	MCT 221	3
MET	2301	3	Fluid Mechanics	MCT 231	3
MET	2351	3	Dynamics	MCT 315	3
OPT	1100	2	Tooling & Machining Metrology	MFG 206L+ 1XX	1+1
OPT	2208	3	Engineering Technology Economics & Cost Analysis	IET 317	3
TOTAL		61-64			61-64

- ***CHE 1211 will substitute for CHM 123+123L requirement for Mechanical Engineering Technology 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.**
- *****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.**
- **ECT 110 and 110L credit will be granted only after both EET 1150 and 1155 courses are completed 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.**
- **133 hours minimum are required for a BS degree at UD. Required GPA at the time of transfer to UD is 3.0.**

Students must complete the following additional coursework at Sinclair in order to graduate in a timely manner from UD:

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SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
ENG	1201	3	English Composition II	ENG 200	3
			Major Elective – Courses Beyond 12-15 Required Sinclair Hours from:		
CAM	1109	3	Fundamentals of Tooling and Machining	MFG 108L+1XX	1+2
EET	1150+1155	4+3	DC Circuits and AC Circuits	ECT 110+110L+1XX	3+1+3
MAT	1450	4	Introductory Statistics	MTH 207+1XX	3+1
MET	1161	1	Software Tools for Engineering Technology	MCT 1XX	1
MET	2101	3	Thermodynamics	MCT 342	3
MET	2201	3	Statics	MCT 215	3
MET	2251	3	Strength of Materials	MCT 221	3
MET	2301	3	Fluid Mechanics	MCT 231	3
MET	2351	3	Dynamics	MCT 315	3
OPT	1100	2	Tooling & Machining Metrology	MFG 206L+1XX	1+1
OPT	2208	3	Engineering Technology Economics & Cost Analysis	IET 317	3
TOTAL		26-29			26-29

- ECT 110 and 110L credit will be granted only after both EET 1150 and 1155 courses are completed at Sinclair.
- IET 317 (OPT 2208 equivalent) may be taken after transitioning to UD during Semester 6 or 8.

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UDSA Mechanical Engineering Technology Pathway – 4 Semester Plan for UD			
Semester 5 Fall	CR		Semester 6 Spring
EGR 103	2		ECT 408
IET 323	3		MCT 320
MCT 112L	3		MFG 240
MFG 204	3		REL 103
MFG 204L	1		Tech Elective
SET 153L	1		Approved CAP Course
SET 250	2		
SET 300	0		
TOTAL	15		TOTAL
			17
Semester 7 Fall	CR		Semester 8 Spring
MCT 336	3		MCT 490 (Capstone)
MCT 336L	1		Tech Elective
MCT 420	3		Tech Elective
SET 400	0		Approved CAP Course
Electrical Elective	3		Approved CAP Course
Tech Elective	3		
Approved CAP Course	3		
TOTAL	16		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.