

ACADEMIC PATHWAYS



Sinclair College – Associate of Science in Engineering and Engineering Technology University Transfer To University of Dayton - Bachelor of Mechanical 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
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
MEE	2401	3	Dynamics for Engineers	EGM 202	3
MET	1301	3	SolidWorks Basics	MEE 104L+ 1XX	2+1
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 207+211L +2XX	3+1+1
PHY	2210	3	MATLAB for Scientists & Engineers	MEE 214****	3
ECO ECO	2180, 2160,	6	Select Two Social Science Courses from: Principles of Microeconomics Principles of Macroeconomics	ECO 203, ECO 204,	6

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SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
PLS PSY SOC	1120, 1100, or 1101***		American Federal Government General Psychology Introduction to Sociology	POL 201, PSY 101, or SOC 101	
TOTAL		62			62

- ***CHE 1211 will substitute for CHM 123+123L requirement for Mechanical 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.**
- *****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.**
- ******PHY 2210 will substitute for MEE 214 requirement. This exception applies only to UD Sinclair Academy Mechanical Engineering 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.**
- **132 hours minimum are required for a MEE (Bachelor of Mechanical 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
ENG	1201	3	English Composition II	ENG 200	3
MEE	2301	3	Strength of Materials for Engineers	EGM 303	3
MET	1161	1	Software Tools for Engineering Technology	MEE 114L	1
REL	1111, 1112, 2204, or	3	Eastern Religions Western Religions	REL 1XC, REL 103, REL 1XC, or	3

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SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	UD COURSE #	UD CREDIT HOUR
	2255		Great Books: The Bible & Western Culture People and Religion	REL 1XC	
TOTAL		10			10

- **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.**

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UDSA Mechanical Engineering Pathway – 4 Semester Plan for UD			
Semester 5 Fall	CR		Semester 6 Spring
EGR 103	2		MEE 321
MEE 205	3		MEE 341
MEE 300	0		MEE 344 or Equivalent
MEE 308	3		MEE 410
MEE 312	3		MEE 410L
MEE 312L	1		Approved CAP Course
MTH 218	4		
TOTAL	16		TOTAL
			16
Semester 7 Fall	CR		Semester 8 Spring
MEE 427	3		MEE 400
MEE 431L	2		MEE 432L (Capstone)
MEE 439	4		MEE 460
MEE EL	3		MEE EL
MTH/SCI EL	3		Approved CAP Course
Approved CAP Course	3		Approved CAP Course
TOTAL	18		TOTAL
			16

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