

ACADEMIC PATHWAYS



Sinclair College – Associate of Science in Engineering University Transfer To University of Dayton - Bachelor of Mechanical Engineering

| SUBJECT CODE | COURSE NUMBER | COURSE TITLE | UD CR HOURS | UD COURSE # |
|---------------------------------|--|--|------------------|--|
| ENG | 1101 | English Composition I | 3 | ENG 100 |
| ENG | 1201 | English Composition II | 3 | ENG 200 |
| COM | 2206 or 2211 | Interpersonal Communication Effective Public Speaking <i>(Only UDSA students who complete the AS-EUT program will receive transfer credit for CMM 100.)</i> | 3 | CMM 320 or CMM 351 |
| ECO ECO PLS PSY SOC | 2180 2160 1120 1100 1101 | Two social sciences are required for Sinclair's associate degree. <i>One social science listed is needed for UD as a substitution for SSC 200.</i> | 3 | SSC 200 |
| HIS PHI REL | 1112 2205 or 2206 1111 or 1112 or 2204 or 2255 | Western Civilization II Introduction to Philosophy Introduction to Ethics Eastern Religions Western Religions Great Books: The Bible and Western Culture People and Religion <i>[Sinclair's Associate degree requires Ohio Transfer Module (2 courses from 2 different categories above). UD Bachelor's requires 1 from each of the 3 departments.]</i> | 3 3 3 | HST 103 PHL 103 REL 103 |
| MAT MAT MAT MAT | 2270 2280 2290 2310 | Calculus I w/ Analytic Geometry Calculus II w/ Analytic Geometry Calculus III w/ Analytic Geometry Elementary Differential Equations | 4 4 4 3 | MTH 168 MTH 169 MTH 218 MTH 219 |
| CHE | 1211 | General Chemistry I | 3/1 | CHM 1GF/L= CHM 123 + CHM 123L |
| PHY | 2201 | General Physics I <i>(Lab not required for UD, but is required at Sinclair)</i> | 3/1 | PHY 206 + PHY 210L |
| PHY | 2202 | General Physics II <i>(Lab not required for UD, but is required at Sinclair)</i> | 3/1 | PHY 207 + PHY 211L |

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|---------------------|----------------------|-------------------------------------|--------------------|-----------------------|
| MEE | 2101 | Statics for Engineers | 3 | EGR 201 |
| MEE | 2201 | Thermodynamics for Engineers | 3 | EGR 202 |
| EGR | 2201 | Circuit Analysis | 3/1 | EGR 203 + EGR 203L |
| MEE | 2301 | Strength of Materials for Engineers | 3 | EGM 303 |
| MEE | 2401 | Dynamics for Engineers | 3 | EGM 202 |
| MET | 1301 | SolidWorks Basics | 2 | MEE 104L |

Consult with Sinclair College Advisor for course sequencing.

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| UDSA Mechanical Engineering Pathway – 4 Semester Plan for UD | | | |
|---|-----------|--|---|
| Semester 5 Fall | CR | | Semester 6 Spring |
| EGR 103 | 2 | | MEE 341 |
| MEE 300 | 0 | | MEE 344 or 478 |
| MEE 308 | 3 | | MEE 410 |
| MEE 312 | 3 | | MEE 410L |
| MEE 312L | 1 | | Humanities Elective – Adv HST |
| MEE 314 | 3 | | OPEN EL |
| MEE 321 | 3 | | |
| Humanities Elective - Art | 3 | | |
| TOTAL | 18 | | 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 | | Humanities Elective – Adv PHL/REL |
| Humanities Elective – Adv PHL/REL | 3 | | OPEN EL |
| TOTAL | 18 | | TOTAL |
| | | | 16 |

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