

MECHANICAL ENGINEERING TRANSFER PATHWAY, A.E.S.

What is a Transfer Pathway?

A transfer pathway represents a typical course schedule/sequence for a student planning to complete the A.E.S. degree within two years, then transfer and major in a specific discipline. A transfer pathway is not institution-specific.

It is important to understand that the pathway provided in the adjacent tab is just one possible combination of classes by which to complete an A.E.S. and prepare for transfer in your chosen area of study. Other course combinations and sequences can work, too. It is strongly recommended that students work directly and frequently with a COD academic counselor/advisor, a COD faculty advisor, and academic counselors/advisors at potential transfer schools, to develop and execute a plan that works best for them.

For more information about Engineering, please visit the program page (<http://www.cod.edu/engineering/>).

College of DuPage also offers institution-specific information to help prepare you to transfer to a four-year college or university; please visit the transfer opportunities page (<https://cod.edu/academics/transfer/programs/>) for more information.

Suggested Semester Sequence

| Course | Title | Credits |
|------------------------|--|-----------|
| First Semester | | |
| MATH 2231 | Calculus and Analytic Geometry I (EPC) ¹ | 5 |
| CHEMI 1551 | Principles of Chemistry I (EPC) ¹ | 5 |
| ENGLI 1101 | English Composition I ¹ | 3 |
| ENGIN 1101 | Engineering Graphics and Design (ESC) ² | 3 |
| Credits | | 16 |
| Second Semester | | |
| MATH 2232 | Calculus and Analytic Geometry II (EPC) ¹ | 5 |
| PHYSI 2111 | Physics for Science and Engineering I (EPC) ¹ | 5 |
| ENGLI 1102 | English Composition II (GEN ED) ¹ | 3 |
| ENGIN 2201 | Statics (ESC) ² | 3 |
| Credits | | 16 |
| Summer Semester | | |
| GEN ED | Humanities/Fine Arts or Social/Behavioral Sciences | 3 |
| Credits | | 3 |
| Third Semester | | |
| MATH 2233 | Calculus and Analytic Geometry III (EPC) ¹ | 4 |
| PHYSI 2112 | Physics for Science and Engineering II ¹ | 5 |
| ENGIN 2202 | Dynamics (ESC) ² | 3 |
| ENGIN 2203 | Mechanics of Materials (ESC) ² | 3 |
| Credits | | 15 |
| Fourth Semester | | |
| MATH 2270 | Differential Equations (EPC) ¹ | 4 |
| CIS 2485 | C++ for Science and Engineering (EPC) ¹ | 3 |

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|----------------------|--|--------------|
| ENGIN 2205 | Engineering Thermodynamics (ESC) | 3 |
| ESC | Consult transfer university ³ | 3 |
| ESC | Consult transfer university ³ | 3-4 |
| Credits | | 16-17 |
| Total Credits | | 66-67 |

¹ Required for all Engineering majors.

² Specific to Civil, Mechanical, and Industrial Engineering degrees.

³ Use transfer equivalencies to determine appropriate ESC course.

Program Milestones

First Semester

- Consider joining or visiting with a professional, cultural or interest-based Student Club (http://cod.edu/student_life/clubs_org/).

Second Semester

- If you have not done so yet this semester, it is important to make an appointment with a Faculty or Program Advisor (<https://www.cod.edu/academics/programs/engineering/contact.html>) to discuss your future academic progress.

General Education Requirements

For general education requirements for the A.E.S. degree, please visit the A.E.S. degree catalog page (<https://catalog.cod.edu/associate-degree-programs/associate-engineering-science-degree/>).