

Engineering Emphasis: Mechanical Track

Associate of Science

Total credits: 116.0

■ Major Course
 ■ General Education Course
 ■ Elective Course
 ■ Milestone



Term 1 Fall17.0 credits	Term 2 Winter12.0 credits	Term 3 Spring12.0 credits
ENGR 100 — Orientation to Engineering — 3.0 credits — Major Course	ENGR 102 — Design Thinking and Problem Solving — 4.0 credits — Major Course	CH 202 — Chemistry for Engineering Applications II — 4.0 credits — Major Course
COMM 111Z — Public Speaking — 4.0 credits — General Education Course or COMM 114 <i>Argument and Critical Discourse</i>	CH 201 — General Chemistry for Engineering Applications I — 4.0 credits — General Education Course	ENGR 103 — Engineering Computation and Algorithmic Thinking — 4.0 credits — Major Course
MTH 111Z — Precalculus I: Functions — 4.0 credits — General Education Course or MTH 112Z <i>Precalculus II: Trigonometry</i>	MTH 112Z — Precalculus II: Trigonometry — 4.0 credits — General Education Course or MTH 251Z <i>Differential Calculus</i>	MTH 251Z — Differential Calculus — 4.0 credits — General Education Course or MTH 252Z <i>Integral Calculus</i>
WR 121Z — Composition I — 4.0 credits — General Education Course	Milestone: Apply to transfer college(s)	Milestone: Meet with your academic advisor
MTH 111Q — Corequisite for MTH 111Z — 1.0 credits — Elective Course	Milestone: Meet with your academic advisor	
WR 121Q — Corequisite for WR 121Z — 1.0 credits — Elective Course		
Milestone: Meet with your academic advisor		
Term 4 Fall12.0 credits	Term 5 Winter16.0 credits	Term 6 Spring10.0 credits
MTH 252Z — Integral Calculus — 4.0 credits — Major Course or MTH 254 <i>Multivariable Calculus</i>	MTH 254 — Multivariable Calculus — 4.0 credits — Major Course or MTH 256 <i>Applied Differential Calculus</i>	MTH 256 — Applied Differential Calculus — 4.0 credits — Major Course or MTH 264 <i>Introduction to Matrix Algebra</i> or MTH 264B <i>Introduction to Matrix Computations</i> or MTH 265 <i>Introduction to Series</i>
WR 227Z — Technical Writing — 4.0 credits — General Education Course	HST 101 — History of Western Civ: Ancient World to 1000 AD — 4.0 credits — General Education Course or other <i>Arts and Humanities - General course from the catalog</i>	ED 216 — Purpose/Structure/Function — 3.0 credits — General Education Course or other <i>Difference, Power, and Oppression Foundations course from the catalog</i>
ENGR 201 — Electrical Fundamentals: DC Circuits — 4.0 credits — Elective Course	ENGR 202 — Electrical Fundamentals: AC Circuits — 4.0 credits — Elective Course	ENGR 248 — Engineering Graphics: Mechanical — 3.0 credits — Elective Course
Milestone: Meet with your academic advisor	ENGR 230 — Computational Methods for Engineering — 4.0 credits — Elective Course	

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This program map represents one possible pathway through the program and is for reference only. Make an appointment with the [First Resort](#) (prospective students) or [Advising](#) (current students) to receive personalized guidance.

Engineering Emphasis: Mechanical Track (continued)



Associate of Science

Total credits: 116.0

Major Course General Education Course Elective Course Milestone

Term 7 Fall15.0 credits	Term 8 Winter13.0 credits	Term 9 Spring9.0 credits
MTH 264 — Introduction to Matrix Algebra — 2.0 credits — Major Course MTH 264B — Introduction to Matrix Computations — 1.0 credits — Major Course ANTH 110 — Introduction to Cultural Anthropology — 3.0 credits — General Education Course <i>or other Arts and Humanities - Global course from the catalog</i> PH 211 — General Physics with Calculus — 5.0 credits — General Education Course ENGR 211 — Statics — 4.0 credits — Elective Course Milestone: Apply for graduation	PH 212 — General Physics with Calculus — 5.0 credits — Major Course ENGR 217 — Dynamics for Mechanical Engineering — 4.0 credits — Elective Course STAT 265 — Introduction to Statistics for Engineers — 4.0 credits — Elective Course	PH 213 — General Physics with Calculus — 5.0 credits — Major Course ENGR 213 — Strength of Material — 4.0 credits — Elective Course Milestone: OSU Class

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