

Engineering Emphasis: Bioengineering Track

Associate of Science

Total credits: 137.0

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



Pre-Program Information

0.0 credits

Milestone: Chemistry Placement

Term 1

Fall

16.0 credits

ENGR 100 — Orientation to Engineering — 3.0 credits — Major Course

CH 150Z — Preparatory Chemistry — 3.0 credits — General Education Course
or **CH 221Z/CH 227Z** General Chemistry I

MTH 111Z — Precalculus I: Functions — 4.0 credits — General Education Course
or **MTH 112Z** Precalculus II: Trigonometry

WR 121Z — Composition I — 4.0 credits — General Education Course

MTH 111Q — Corequisite for MTH 111Z — 1.0 credits — Elective Course

WR 121Q — Corequisite for WR 121Z — 1.0 credits — Elective Course

Milestone: Meet with your academic advisor

Term 2

Winter

17.0 credits

ENGR 102 — Design Thinking and Problem Solving — 4.0 credits — Major Course

CH 221Z/CH 227Z — General Chemistry I — 5.0 credits — General Education Course
or **CH 222Z/CH 228Z** General Chemistry II

COMM 111Z — Public Speaking — 4.0 credits — General Education Course
or **COMM 114** Argument and Critical Discourse

MTH 112Z — Precalculus II: Trigonometry — 4.0 credits — General Education Course
or **MTH 251Z** Differential Calculus

Milestone: Apply to transfer college(s)

Milestone: Meet with your academic advisor

Term 3

Spring

17.0 credits

CH 222Z/CH 228Z — General Chemistry II — 5.0 credits — Major Course
or **CH 223Z/CH 229Z** General Chemistry III

ENGR 103 — Engineering Computation and Algorithmic Thinking — 4.0 credits — Major Course

MTH 251Z — Differential Calculus — 4.0 credits — General Education Course
or **MTH 252Z** Integral Calculus

WR 227Z — Technical Writing — 4.0 credits — General Education Course

Milestone: Meet with your academic advisor

Term 4

Summer

9.0 credits

CH 223Z/CH 229Z — General Chemistry III — 5.0 credits — Major Course

MTH 252Z — Integral Calculus — 4.0 credits — Major Course

Term 5

Fall

16.0 credits

MTH 254 — Multivariable Calculus — 4.0 credits — Major Course

ANTH 110 — Introduction to Cultural Anthropology — 3.0 credits — General Education Course
or other **Arts and Humanities - Global** course from the catalog

BI 221Z — Principles of Biology: Cells — 5.0 credits — Elective Course

CH 241 — Organic Chemistry — 4.0 credits — Elective Course

Milestone: Meet with your academic advisor

Map continues on the next page →

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: Bioengineering Track (continued)



Associate of Science

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Term 6 Winter 16.0 credits

MTH 256 — Applied Differential Calculus — 4.0 credits — Major Course

HST 101 — History of Western Civ: Ancient World to 1000 AD — 4.0 credits — General Education Course
or other Arts and Humanities - General course from the catalog

CH 242 — Organic Chemistry — 4.0 credits — Elective Course

ENGR 211 — Statics — 4.0 credits — Elective Course

Term 7 Spring 15.0 credits

MTH 264 — Introduction to Matrix Algebra — 2.0 credits — Major Course

MTH 265 — Introduction to Series — 2.0 credits — Major Course

EC 201Z — Principles of Microeconomics — 4.0 credits — General Education Course
or other Social Science course from the catalog

ED 216 — Purpose/Structure/Function — 3.0 credits — General Education Course
or other Difference, Power, and Oppression Foundations course from the catalog

CH 243 — Organic Chemistry — 4.0 credits — Elective Course

Term 8 Fall 9.0 credits

PH 211 — General Physics with Calculus — 5.0 credits — General Education Course

BI 231Z — Human Anatomy and Physiology I — 4.0 credits — Elective Course

Milestone: OSU Class

Milestone: Apply for graduation

Term 9 Winter 13.0 credits

PH 212 — General Physics with Calculus — 5.0 credits — Major Course

BI 232Z — Human Anatomy and Physiology II — 4.0 credits — Elective Course

ENGR 201 — Electrical Fundamentals: DC Circuits — 4.0 credits — Elective Course

Milestone: OSU Class

Term 10 Spring 9.0 credits

PH 213 — General Physics with Calculus — 5.0 credits — Major Course

BI 233Z — Human Anatomy and Physiology III — 4.0 credits — Elective Course

Milestone: OSU Class