

Biology: Four Year Plan Dentistry
Blue lettering BIOLOGY major requirements
(updated April 2024 H.Banks & updates pending Y. Kawarasaki)

First Year: Fall

BIO 110 Principles of Biology (DAT) & BIO 111 Lab

**CHE 110 General Chemistry (DAT) & CHE 111 General Chemistry Lab OR CHE 105 Foundations of Chemistry I (DAT) & CHE 106 Foundations of Chemistry I Lab*

Before you can register for CHE 110, you are required to take the Chemistry placement exam. (CHE 105/106 offered Fall only** and CHE 107/108 offered Spring only) taking both are equivalent to CHE 110. Find out more about the CHE placement exam, [click here](#).*

FTS 100 First Term Seminar (Writing Intensive course- WRIT)

PSY 100 Introductory Psychology (or Spring)

First Year: Spring

BIO 120 Organismal Biology (DAT) & BIO 121 Lab

CHE 120 Organic Chemistry I (DAT) & CHE 121 Organic Chemistry I Lab (offered Fall and Spring)

**OR CHE 107 Foundations of Chemistry II (DAT) & CHE 108 Foundations of Chemistry II Lab
*(CHE 105/106 offered Fall only and **CHE 107/108 offered Spring only**) taking both are equivalent to CHE 110)*

MCS 121 Calculus I or MCS 142 Introduction to Statistical Methods

Second Year: Fall

CHE 220 Organic Chemistry II (DAT) & CHE 221 Organic Chemistry II Lab (offered Fall only)

BIO 250 Cell and Molecular Biology & BIO 251 Lab

**English- composition (some composition recommendations: ENG 100 Writing Process, ENG 112 Creative Writing, ENG 253 Writing Fiction WRITD, ENG 256 Writing Creative Nonfiction WRITD)*

*(U of M prerequisite requirement: Two composition courses are preferred; or one composition course, and one additional course in either literature, humanities, or public speaking that is designated as writing intensive)

Second Year: Spring

CHE 230 Inorganic Chemistry I (DAT recommended) & CHE 231 Inorganic Chemistry I Lab (offered Spring only)

[BIO 260 Evolution, Ecology, and Behavior & BIO 261 Lab](#)

Third Year: Fall

PHY 120 General Physics I & PSY 121 General Physics I Lab (offered Fall only)

HES 230 Human Anatomy & Physiology I & HES 231 Human Anatomy & Physiology I Lab (offered Fall only)

*ART 141 Form and Surface, Ceramic Tech (*U of MN top recommendation) Spring semester only **or** ART 110 Drawn Conn and Visual Narratives (Fall & Spring) **or** ART 121 Sculptural Modes (Fall and Spring) (recommended)

[300- level BIO course](#)

Third Year: Spring

PHY 170 General Physics II & PHY 171 General Physics II Lab (offered Spring only)

HES 240 Anatomy & Physiology II & HES 241 Anatomy & Physiology II Lab (offered Spring only)

[300- level BIO course \(possibly BIO 360 Microbiology & Lab\)](#)

Fourth Year: Fall

[CHE 270 Biochemistry & CHE 271 Lab \(or 300- level BIO course if planning to take CHE 270 Biochemistry & Lab in Spring\)](#)

Fourth Year: Spring

[BIO 360 Microbiology & BIO 361 Lab \(or CHE 255 Biochemistry & Lab\)](#)