

Undecided (considering BIO, CHE, or BMB major): Two year Plan Medicine
[Blue text major requirements](#)

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This is a two-year plan for a student who is interested in attending Medical school, yet is undecided about whether he/she wishes to pursue a biology, chemistry or BMB major at Gustavus. Once the student has decided on a major (by the spring of the 2nd year), he/she can work with an advisor to develop a plan for the 3rd and 4th years at Gustavus that fulfills the requirements for the chosen major, as well as Medical school and MCAT requirements.

First Year: Fall

[BIO 110 Principles of Biology \(MCAT\) & BIO 111 Lab \(offered Fall only\)](#)

[CHE 110 General Chemistry \(MCAT\) & CHE 111 General Chemistry Lab OR CHE 105 Foundations of Chemistry \(MCAT\) & CHE 106 Foundations of Chemistry Lab](#)

Before you can register for CHE 105 or CHE 110, you are required to take the Chemistry placement exam. (CHE 105/106 offered Fall only. CHE 105/106 is an optional course that can be taken before CHE 110/111 to build a stronger chemistry foundation.). Find out more about the CHE placement exam, Click [HERE](#)

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

PSY 100 Introduction to Psychology (MCAT) (offered both Fall and Spring; flexible either semester, first or second year)

First Year: Spring

[BIO 120 Organismal Biology \(MCAT\) & BIO 121 Lab \(offered Spring only; students who wish to take the introductory biology series can start with BIO 120/121 in the spring and complete it with BIO 110/111 in the fall of their second year\)](#)

[CHE 120 Organic Chemistry I \(MCAT\) & CHE 121 Organic Chemistry I Lab \(offered Fall and Spring\)](#)

-OR-

[CHE 110 General Chemistry \(MCAT\) & CHE 111 General Chemistry Lab](#)

[MCS 121 Calculus I](#)

S/A 112 Introduction to Sociology (MCAT) (offered Spring 2026 ONLY, pending hire 6/2025 HBanks)

Second Year: Fall

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

If you took CHE 105/106 and CHE 110/111 in the first year, take CHE 120 Organic Chemistry I (MCAT) & CHE 121 Organic Chemistry I Lab (offered Fall and Spring) instead of CHE 220/221. It is possible to take Che 220/221 Org Chem. II in Fall of third year and take Che 270/271 Biochem in the Spring of third year or in the fourth year.

BIO 250 Cell & Molecular Biology & BIO 251 Lab (offered Fall only, prerequisite of CHE 120/121. Co Enrollment is possible in some cases. See Biology Dept Chair for more information)

Second Year: Spring

Note: By this semester students should have a sense of which direction they will declare. Students who are leaning strongly towards declaring a chemistry major or the chemistry-track of the BMB major do not need to take BIO 260/261 Evolution, Ecology, and Behavior.

Those planning to declare a Chemistry major will want to complete MCS 122 Calculus II by this point. Note: Beginning in 2025-2026, the BMB major no longer requires MCS 122.

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

BIO 260 Evolution, Ecology, and Behavior & BIO 261 Lab (offered Spring only) (required for Biology major or BMB major with biology track)

MCS 122 Calculus II (Required for Chemistry major only)

This is a general plan of study including only the requirements for Medicine and the first four semesters of a BIO, CHE, or BMB major. Please speak with a faculty member in one of these areas to determine if this is the best layout of courses for your situation or to receive additional help in planning out your path through the majors, graduation requirements, and prerequisites for medical school. It is important to note the minimum grade needed for any course to satisfy any course prerequisites in Biology and Chemistry. This is outlined in the academic catalog.