Microbiology: Pre-medicine Track

Chemistry
CHEM:1110 Principles of Chemistry I – 4 s.h.
CHEM:1120 Principles of Chemistry II – 4 s.h.; prereq CHEM:1110 with min. grade of C-
CHEM:2210 Organic Chemistry I – 3 s.h.; prereq CHEM:1120
CHEM:2220 Organic Chemistry II – 3 s.h.; prereq CHEM:2210 with min. grade of C-
CHEM:2410 Organic Chemistry Lab – 3 s.h.; prereq CHEM:2210

Biology
BIOL:1411 Foundations of Biology – 4 s.h.; prereq: CHEM:1110 with min. grade of C-
BIOL:1412 Diversity of Form and Function – 4 s.h.; BIOL:1411 with min. grade of C-

Biochemistry
BIOC:3120-3130 Biochemistry and Molecular Biology I-II – 6 s.h.

Mathematics or Statistics – One of these:
BIOS:4120 Introduction to Biostatistics – 3 s.h. (preferred)
MATH:1460 Calculus for the Biological Sciences – 4 s.h.
MATH:1550 Engineering Mathematics I: Single Variable Calculus – 4 s.h.
MATH:1850 Calculus I – 4 s.h.
STAT:3510 Biostatistics – 3 s.h. (preferred)
Statistics is preferred to Calculus for the major

Physics – One of these sequences
PHYS:1511-1512 College Physics I-II – 8 s.h.
PHYS:1511-1612 Introductory Physics I-II – 8 s.h.

Microbiology Courses
Pre-medicine track requires 21 s.h. in microbiology courses.
MICR:2157 General Microbiology – 3 s.h.
MICR:2158 General Microbiology – 2 s.h.
MICR:4163 Seminar: Microbiology (taken once in the last two semesters before graduation) – 2 s.h.

Additional microbiology courses, with at least 14 s.h. in courses numbered MICR:3147 or above, excluding MICR:3164 and MICR:5220.

Students must earn a grade of C or higher in BIOL:1411 Foundations of Biology or MICR:2157 General Microbiology in order to take more advanced microbiology courses.

Students must take MICR:4163 Seminar: Microbiology once for credit during their last two semesters before graduation. They may apply a maximum of 2 s.h. earned in the course toward the major; they are encouraged to take it for 0 s.h. during other semesters after they have completed MICR:2157 General Microbiology.
Microbiology: Scholar Track

Chemistry
CHEM:1110 Principles of Chemistry I – 4 s.h.
CHEM:1120 Principles of Chemistry II – 4 s.h.; prereq CHEM:1110 with min. grade of C-
CHEM:2210 Organic Chemistry I – 3 s.h.; prereq CHEM:1120

Biology
BIOL:1411 Foundations of Biology – 4 s.h.; prereq: CHEM:1110 with min. grade of C-
BIOL:1412 Diversity of Form and Function – 4 s.h.; BIOL:1411 with min. grade of C-

Biochemistry
BIOC:3120-3130 Biochemistry and Molecular Biology I-II – 6 s.h.

Mathematics or Statistics – One of these:
BIOS:4120 Introduction to Biostatistics – 3 s.h. (preferred)
MATH:1460 Calculus for the Biological Sciences – 4 s.h.
MATH:1550 Engineering Mathematics I: Single Variable Calculus – 4 s.h.
MATH:1850 Calculus I – 4 s.h.
STAT:3510 Biostatistics – 3 s.h. (preferred)
Statistics is preferred to Calculus for the major

Additional Coursework:
PHYS:1400 Basic Physics w/lab – 4 s.h.

Microbiology Courses
Pre-medicine track requires 21 s.h. in microbiology courses.
MICR:2157 General Microbiology – 3 s.h.
MICR:2158 General Microbiology – 2 s.h.
MICR:4163 Seminar: Microbiology (taken the last two semesters before graduation) – 2 s.h.

One of these:
GHS:2000 Introduction to Global Health Studies – 3 s.h.
GHS:2320 Anthropological Perspectives on Human Infectious Disease: Origins and Evolution – 3 s.h.

Scholar track students must earn an additional 4 s.h. of advanced course work chosen from:
BIOL:4213 Bioinformatics – 3 s.h.
GHS:2000 Introduction to Global Health Studies – 3 s.h.
GHS:2080 The Cultural Politics of HIV-AIDS – 3 s.h.
GHS:2320 Anthropological Perspectives on Human Infectious Disease: Origins and Evolution – 3 s.h.
Additionally, work in microbiology courses numbered MICR:3147 or above, excluding MICR:3164 and MICR:52220.

Scholar track students must take at least one microbiology advanced lab or research course from:
MICR:3159 Bacteria and Human Disease – 3 s.h.
MICR:3175 Molecular Microbiology and Genetics Laboratory – 3 s.h.
MICR:3178 Virology Laboratory and Discussion – 3 s.h.
MICR:4161 Undergraduate Research in Microbiology – arr.
MICR:4171 Honors Undergraduate Research in Microbiology – arr.