B.S. in Microbiology Graduation Checklist

Effective Fall 2020

Microbiology Major Requirements - all required

__BCMB 3100 (4 hr) - Intro Biochemistry and Molecular Biology
or BCMB 4020 (3 hr) - Biochemistry and Molecular Biology II
__MIBO 3500 (3 hr) - Introductory Microbiology
__MIBO 3500L (1 hr) – Introductory Microbiology Laboratory I
__MIBO 3510L (3 hr) - Introductory Microbiology Laboratory II
__MIBO 4090 (4 hr) - Prokaryotic Biology
__GENE 3200-3200D (4 hr) Introduction to Genetics

Other Major Required

__PHYS 1111/1111L (4 hr) – Introductory Physics-Mechanics, Waves, Thermodynamics or
PHYS 1211/1211L (4 hr) – Principles of Physics for Scientists and Engineers – Mechanics, Waves, Thermodynamics and
__PHYS 1112/1112L (4 hr) – Introductory Physics-Electricity and Magnetism, Optics, Modern Physics or
PHYS 1212/1212L (4 hr) – Principles of Physics for Scientists and Engineers – Electricity and Magnetism, Optics, Modern Physics

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MAJOR REQUIRED III (Upper level science elective) – Choose one

BCMB 3600 (3 hr) – Genomics and Bioinformatics
BCMB 4030L (4 hr) – Bioprocess Technology
CRSS(MIBO) 4610-4610L (3 hr) – Soil Microbiology
CBIO 3400 (3 hr) – Cell Biology
CBIO 4500 (3 hr) – Medical Parasitology
CBIO 4600 (3 hr) – Biology of Protists
ECOL(BIOL) 4150/4150L (4 hr) – Population Biology of Infectious Diseases
EHSC(FDST)(MIBO) 4310-4310L (4 hr) – Environmental Microbiology *
GENE 4240L (3 hr) – Experimental Microbiome Genetics Laboratory *
MARS(MIBO) 4620/4620L (3 hr) – Microbial Ecology *
MIBO 4600L (4 hr) – Experimental Microbiology Lab *

*if not used in Major Required I or II

Computer Science – Math-Statistics Choose one

BINF(BCMB) 4005 (2 hr) – Essential Computing Skills for Biologists
BINF(PBIO) 4550 (3 hr) – Concepts in Bioinformatics and Omics
BIOS 2010-2010L (4 hr) – Elementary Biostatistics
CSCI 1210 (3 hr) – Computer Modeling and Science
CSCI 1301/1301L (4 hr) – Introduction to Computing and Programming
GENE 4220L (3 hr) – Laboratory in Genetic Modeling
MATH 2260 (4 hr) – Calculus II for Science and Engineering
MATH(BINF) 4780 (3 hr) – Mathematical Biology
STAT 2000 or 2100H (4 hr) – Introductory Statistics
STAT 3110 (3 hr) – Intro to Statistics for Life Sciences
STAT 3120 (3 hr) – Intro to Probability for Life Sciences