Molecular Genetics and Microbiology

HBM 320 General Microbiology
A study of the molecular structure, functional anatomy, growth, genetics, and pathogenic mechanisms of microbial agents, with an emphasis on bacteria and viruses. Non-specific and specific host defenses and the control of microorganisms will also be covered. Satisfies the microbiology requirement for admission to most allied health, nursing, optometry, and veterinary medicine professional schools.
Prerequisites: BIO 202; CHE 132
3 credits

HBM 321 General Microbiology Laboratory
Complementing the lecture material of HBM 320, this optional laboratory covers basic and applied microbiological methods. Students are introduced to methods for isolating pure cultures, microscopy and staining, quantization of bacteria and determination of sensitivity to antimicrobial agents. This laboratory is limited to pre-allied health, pre-nursing, and pre-veterinary students.
Prerequisites: BIO 202; CHE 132; permission of instructor
1 credit

HBM 393, 394 Special Topics from the Microbiology Literature
Tutorial readings in microbiology with periodic conferences, reports, and examinations arranged with the instructor. Semester project report required. May be repeated.
Prerequisites: U3 or U4 standing; permission of instructor
1-2 credits per course

HBM 398, 399 Research Project in Microbiology
An independent research project under faculty supervision, with emphasis on the principles of experimental design, data collection, evaluation of findings, and reporting of results. Project report required. May be repeated.
Prerequisites: U3 or U4 standing; prior laboratory experience; permission of instructor
0-4 credits per course