Microbiology (code 3-7654)
(This option is an approved merger of the previously separate
Options in Medical Microbiology and General Microbiology)
This option was recommended by the Academic Senate on April 8, 1999
and concurred by the President on May 3, 1999.

Microbiology is the study of microorganisms and their interactions with people and the
environment. This degree, with the inclusion of appropriate classes, may be utilized by pre-
professional students who are preparing for medical, dental, pharmacy, and veterinary school. A
major in microbiology prepares students for a wide range of employment opportunities in clinical
and public health fields, genetic engineering, environmentally related fields, and industries
concerning food, pharmaceuticals, and medical equipment and supplies. There is a core of
courses for each of these varied educational and employment opportunities and specific
programs can be arranged by counseling with microbiology advisors in the Department. This
undergraduate major is recognized by the American Society for Microbiology as meeting their
core curriculum for the baccalaureate degree program in microbiology, if students use MICR 471
as an elective. This major requires 93-96 units, of which 45-48 are in the lower division and 48
are in upper division.

Lower Division: BIOL 211A, B, 260; CHEM 111A, B, 251; MATH 119A or 122; MICR 211; NSCI
200; PHYS 100A or 101A, 100B or 101B.

Upper Division: CHEM 320A, B, 441A, B; BIOL 340; MICR 320, 322, 430, 430L, 452, either
both 450 and 451 or BIOL 370, and 9 additional elective units chosen from: BIOL 473, 477;
MICR 323, 425, 429, 432, 441, 453, 471, 473, 480, 490, 495, 496. MICR 323, 425, 429, 432,
and 453 are particularly useful for Clinical Laboratory Science (Medical Technology) and other
health related careers. The following courses are not acceptable toward the 9 units: MICR 300I,
302I, 303.

EFFECTIVE: Fall 1999

Code: 3_7654
College: 65
Career: UG
IPEDS (Major) ERSS: 04111
IPEDS (Degree) ERSD: 04111
Discontinue the Option in Medical Microbiology (code 3-7655) to all new students.