

Major requirements to complete a B.S. degree in Microbiology (2008-2010)

Course No.	Hrs.	Course Name	Prerequisites
MATH 141 or 150-4		Calculus	MATH 111 or equivalent with C or better
CHEM 200	3	Introduction to Chemical Principles	high school algebra and chemistry
CHEM 201	1	General Chemistry Laboratory I	CHEM 200 or concurrent enrollment
CHEM 210	3	General and Inorganic Chemistry	CHEM 200, 201 with C or better
CHEM 211	1	General Chemistry Laboratory II	CHEM 210 or concurrent enrollment
CHEM 340	3	Organic Chemistry I	CHEM 210, 211 with C or better
CHEM 341	2	Organic Chemistry Laboratory I	CHEM 340 or concurrent enrollment
CHEM 342	3	Organic Chemistry II	CHEM 340 with C or better
PHYS 203A	3	College Physics I	MATH 108 and 109, or MATH 111
PHYS 253A	1	College Physics Laboratory I	PHYS 203A or concurrent enrollment
PHYS 203B	3	College Physics II	PHYS 203A
PHYS 253B	1	College Physics Laboratory II	PHYS 203B or concurrent enrollment
BIOL 200A	4	Cell & Molecular Biol, Genetics & Evolution	high school chemistry and biology
BIOL 200B	4	Organismal & Ecological Biology	high school chemistry and biology
MICR 301	4	Principles of Microbiology (fall)	college biol and 1 year college chem
MICR 302	3	Molecular Biology (spring)	1 year college chem, BIOL 200A
MICR 403	3	Medical Microbiology (spring)	MICR 301
MICR 460	3	Bacterial and Viral Genetics (fall)	MICR 301, 302
MICR 480	4	Molec Biol of Microorganisms Lab (fall)	MICR 302 & one of 421, 425, 460
MICR 481	4	Diagnostic & Applied Micro Lab (spring)	MICR 301, 302 & two of 403, 453, 470
MICR 495	1	Senior Seminar (spring)	senior standing in Micro
(A grade of C or better must be earned in MICR 301 and 302)			
12 semester hours chosen from the following:			
MICR 421	3	Biotechnology (fall)	MICR 302
MICR 423	3	Geomicrobiology (fall)	MICR 301; Geol recommended
MICR 425	3	Biochem & Phsl of Microorganisms(fall)	Organic Chemistry
MICR 453	3	Immunology (spring)	MICR 403 or permission of instructor
MICR 454	3	Soil Microbiology (fall)	MICR 301 or PLSS 240
MICR 470	3	Prokaryotic Diversity (spring)	MICR 301

Total hours = 70

Supportive Skills requirement - at least 6 credit hours chosen from:

CS 200B, 201, 202; ENGL 291; MATH 282 or PLB 360; 1 year of 200-level foreign language.

The Microbiology Department is located in LS II 131, phone 618-536-2349, fax 618-453-8036, email address microbiology@micro.siu.edu The faculty advisor is Dr. Michael Madigan in LS II 112, phone 618-453-5130.

The College of Science Advisement office is located in Neckers A185, phone 618-536-5537, fax 618-453-7067, email us at advise@cos.siu.edu, or see our web site at <http://www.science.siu.edu/advisement/index.html> The College of Science advisors are Dana McKenzie, Jean McPherson, and Becky Reed.

Updated 5/7/09