MICROBIOLOGY AND MOLECULAR BIOLOGY MINORS Map Sheet
Department of Microbiology and Molecular Biology
For students entering the minor programs during the 2010–2011 curricular year.

| MICROBIOLOGY MINOR (285102) |
| (14-16 hours, plus prerequisites in coupled major) |
| MOLECULAR BIOLOGY MINOR (285103) |
| (14 hours, plus prerequisites in coupled major) |

Complete the following:

**MICROBIOLOGY MINOR**
- MMBio 151 Introduction to Microbiology 4.0
- MMBio 361 Infection and Immunity 4.0

**MOLECULAR BIOLOGY MINOR**
- MMBio 441 Advanced Molecular Biology 3.0
- MMBio 442 Advanced Molecular Biology Laboratory 2.0
- MMBio 468 Genomics 3.0

Complete two courses from the following (at least one must have a lab component):

**MICROBIOLOGY MINOR**
- MMBio 460 Microbial Genetics 4.0
- MMBio 461 Advanced Bacterial Physiology 3.0
- MMBio 462 Microbial Ecology 3.0
- MMBio 463 Immunology 3.0
- MMBio 464 Bacterial Pathogenesis 4.0
- MMBio 465 Virology 3.0

**MOLECULAR BIOLOGY MINOR**
- MMBio 441 Advanced Molecular Biology 3.0
- MMBio 442 Advanced Molecular Biology Laboratory 2.0
- MMBio 468 Genomics 3.0

Complete at least 6 hours from the following:

**MICROBIOLOGY MINOR**
- Bio 465 Bioinformatics 3.0
- Chem 463 Physical Chemistry 3.0
- Chem 468 Biophysical Chemistry 3.0
- Chem 481 Biochemistry 1 3.0
- Chem 482 Biochemistry 2 3.0
- Chem 581 Advanced Biochemical Methodology 1 3.0
- Chem 584 Biochemistry Laboratory/Proteins 3.0
- Chem 586 Biochemistry Laboratory/Nucleic Acids 3.0
- MMBio 151 Introduction to Microbiology 4.0
- MMBio 361 Infection and Immunity 4.0
- MMBio 430 Advanced Cell Biology 3.0
- MMBio 460 Microbial Genetics 4.0
- MMBio 463 Immunology 3.0
- MMBio 464 Bacterial Pathogenesis 4.0
- MMBio 465 Virology 3.0
- MMBio 466 Virology Laboratory 1.0
- MMBio 467 Immunology Lab 1.0
- MMBio 494R Mentored Research (strongly recommended) 3.0V
- MMBio 510 History of Microbiology and Molecular Biology 2.0
- MMBio 513 Philosophy of Biology 2.0
- MMBio 515 RNA-Mediated Gene Regulation 2.0
- MMBio 518 Select Pathogens 2.0
- PDBio 482 Developmental Biology 3.0
- PDBio 582 Developmental Genetics 3.0
- PWS 525 Plant Development 3.0
- PWS 586 Plant Cell Biology 3.0

**MOLECULAR BIOLOGY MINOR**
- MMBio 441 Advanced Molecular Biology 3.0
- MMBio 442 Advanced Molecular Biology Laboratory 2.0
- MMBio 468 Genomics 3.0

**Note:** Be aware of prerequisites for the above courses (usually filled in a coupled major).