Microbiology, Immunology and Infectious Disease

**List of Courses**

CH

First Year Department Requirement:

BIOL 66200 Ethics 1

BIOL 66300 Oral Presentations 1

BIOL 69500PD Tchg Asst Prof Development (for students TAing) 1

Area Requirements

Scientific Writing (≥ 1ch)

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| MCMP 62500 | Grant Writing | 1 |
| HORT 60300 | Grant Writing | 1 |

Quantitative Analysis in Biology (3ch, choose 1)

STAT 50300 Statistical Methods of Biology 3

Experimental Design & Quantitative Analysis in Life

BIOL 52101 Sciences (offered on-line -Summer) 3

Advanced Topics Seminar (1ch, choose 1)

BIOL 69600 Eukaryotic Molecular Biology (Spring, Gelvin) 1

BIOL 69600 Development & Disease Seminar (Seminar) 1

FS 66000 Intestinal Microbiology and Immunology 1

Area Approved Elective Courses (≥ 9ch)

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| BIOL 52900 | Bacterial Physiology (Spring, Luo) | 3 |
| BIOL 53300 | Medical Microbiology (Fall, Mattoo) | 3 |
| BIOL 53700 | Immunobiology (Fall, Deng) | 3 |
| BIOL 54100 | Molecular Genetics of Bacteria (Fall, Luo) | 3 |
| BIOL 51600 | Molecular Biology of Cancer (Spring,Allen-Peterson) | 3 |
| BIOL 54900 | Microbial Ecology (Spring, Applegate) | 3 |
| BIOL 59500 | Theory of Molecular Methods (Spring, Gelvin) | 3 |
| BIOL 59500 | Pathways Human Health & Disease (Fall, Tesmer) | 3 |
| BIOL 59500 | CRISPR Mechanism and Application (Spring, Chang) | 3 |
| BIOL59500BC | Bacteria in Cancer Disease and Prevention (Spring, Zhou) |  3 |
| BIOL 59500ICI | Immunology of Cancer and Infectious Disease Spring, Olson) |  3 |
| FS 55301 | Food Microbiology (Fall, Bhunia) |  1 |
| FS 56500 | Microbial Foodborne Pathogens (Spring, Bhunia) | 3 |
| FS 58100  | Microbial Genomics And Metabolism (Fall, Lindemann) | 3 |
|  BIOL 62000 | Advanced Topics/Eukaryotic Cell Biology (Spring, Aguilar) |  3 |
| BIOL 69500  | Advanced Molecular Virology (Spring, Sanders) | 3 3 |