M.S. in Microbiology (Plan B)

Course credits
- A minimum of 30 credits is required for graduation.
- At least half of these 30 credits must be in the major subject area (MB).
- Two-thirds of the minimum 30 credits must be at the 5XX-level. (Undergraduate courses at the 4XX-level are allowed but not 3XX-level).
- Credit in Seminar (MB 594), Modeling infectious disease dynamics (MB 592) and Internship (MB 598) courses may not exceed 1/3 of credits required.
- Credit for a Professional Paper (MB 575) may not exceed 6 credits.
- Course work more than 6 years old cannot be applied toward the program - see The Graduate School policy on transfer and age of credits (http://www.montana.edu/gradschool/policy).
- Transfer credits – see The Graduate School policy at Transferring Credits (http://www.montana.edu/gradschool/policy).

Pass-fail
No more than 3 credits taken on Pass/Fail basis may be applied to a M.S. program (aside from thesis credits). For more information on Pass/Fail courses, see The Graduate School policy on Pass/Fail.

Core Curriculum
All M.S. Plan B students are required to take BIOB524 - Ethical Practice of Science (spring semester).

All M.S. students are required to take at least one course in three of the six areas of the core curriculum. The six areas of the core curriculum and the courses which can be used to satisfy the requirement are:

Bioinformatics
- MB 537 Advance in Molecular Evol (Fall TBA) 3
- MB 544 Advanced Bioinformatics (Spring even yrs) 4

Biochemistry
- BCH 543 Proteins (Fall odd yrs) 3
- BCH 544 Molecular Biology (Spring odd yrs) 3
- MB 527 Toxicology (Spring) 3

Immunology
- MB 525 Advanced Immunology (Spring even yrs) 3

Microbial evolution & ecology
- MB 560 Infectious Disease Ecology & Spillover (Fall) 3
- MB 591 Special Topics (Precambrian Biosphere) 3
- ERTH 505 Geomicrobiology (Spring even yrs) 3

Microbial genetics & physiology
- MB 528 Advanced Genetics (Spring alt odd) 3
- IMID 505 Eukaryotic Gene Regulation (Spring alt odd) 3

Microbial pathogenesis & epidemiology
- MB 505 Host-Associated Microbiomes (Fall) 4
- MB 530 Virology (Fall) 3

Scientific Writing
- MB 591 Scientific Writing 3

Courses required to fill each area of the core are likely to change as new courses are developed and approved by the Graduate Program Committee. Current course descriptions are available in the MSU On-Line Catalog. Current course availability is found in the MSU On-Line Schedule of Classes.

- MB 594 seminars
  - All students are required to attend and participate in the Departmental Seminar (MB 594 section 01) each semester in residence. [Students who are also members of the Center for Biofilm Engineering will have the option of attending either the Departmental Seminar or the CBE Seminar during their first two years, but must attend at least two semesters of each during this time.]
  - Students are encouraged to register for these each semester, if possible, although there are limits to the number of MB 594 credits allowed in a Graduate Program (3 for M.S.)
  - Have the office staff register you online – there are conflicts when taking multiple MB 594 sections.
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.