# MICROBIOLOGY MS PROGRAM – CHECKLIST

**PLAN A – Thesis Based**

**A minimum of 34 credits with the following distribution:**

1. **Core requirements - all 16 credits of the following:**

\_\_\_\_\_\_ MI 512 *Applied, Food, and Industrial Microbiology* (odd year spring) (prerequisites: MI 200, 221, CH 112)

\_\_\_\_\_\_ MI 525 *Microbial Physiology* (odd year fall) (prerequisites: MI 200, CH 211)

\_\_\_\_\_\_ MI 611 *Medical & Public Health Microbiology* (fall) (prerequisites: MI 200 or equivalent)

\_\_\_\_\_\_ MI 626 *Advanced* *Microbial Physiology* (spring) (prerequisites: MI 525)

1. **Elective requirements – the remaining credits are taken from the courses below:**

**NOTE: 18 credits must be from courses 600 level and above**

\_\_\_\_\_\_ MI 503 *Epidemiology* (even year spring) (prerequisite: MI 200, 221)

\_\_\_\_\_\_ MI 513 *Pathogenic Fungi* (odd year fall) (prerequisite: MI 200)

\_\_\_\_\_\_ MI 517 *Electron Microscopy* (offered as required) (prerequisites: BI/MI 213 or MI 200, and CH 111, 112)

\_\_\_\_\_\_ MI 523 *Microbial Ecology* (offered as required) (prerequisites: MI 200, additional unit of MI, CH 112)

\_\_\_\_\_\_ MI 524 *Molecular Biotechnology* (offered as required) (prerequisite: MI 522)

\_\_\_\_\_\_ MI 521 *Immunology and Serology* (even year fall) (prerequisites: MI 200, CH 211)

\_\_\_\_\_\_ MI 522 *Microbial Genetics* (odd year spring) (prerequisites: MI 200, 221; CH 211)

\_\_\_\_\_\_ MI 591 *Special Topics in Microbiology* (periodically)

\_\_\_\_\_\_ MI 612 *Pathology* (odd year fall) (prerequisites: MI 611)

\_\_\_\_\_\_ MI 615 *Electron Microscopy* (offered as required) (prerequisites: BI/MI 213 or MI 200, and CH 111, 112)

\_\_\_\_\_\_ MI 618 *Parasitology* (odd year spring) (prerequisites: MI 611)

\_\_\_\_\_\_ MI 619 *Virology* (as required) (prerequisites: MI 611)

\_\_\_\_\_\_ MI 621 *Topics in Immunobiology and Immunochemistry* (odd year spring) (prerequisites: MI 521 & MI 611)

\_\_\_\_\_\_ MI 623 *Microbial Pathogenesis* (odd year spring) (prerequisites: MI 525)

\_\_\_\_\_\_ MI 612 *Cellular Microbiology* (even year spring) (prerequisites: MI 611)

\_\_\_\_\_\_ MI 691 *Special Topics in Microbiology* (periodically)

\_\_\_\_\_\_ MI 693 *Independent Study in Microbiology* (prerequisites: permission of instructor & program director)

\_\_\_\_\_\_ MI 710 *Graduate Seminar I* (fall)\*

\_\_\_\_\_\_ MI 720 *Graduate Seminar II* (spring)\*

 *\*It is advised that non-thesis students do not take more than 1 seminar course*

1. **Thesis Research Courses – 2 credits each for a total of 6 credits**

\_\_\_\_\_\_ MI 797 *Research* (fall & spring) (prerequisites: permission of instructor & program director)

\_\_\_\_\_\_ MI 798 *Thesis* *Research* (fall & spring) (prerequisites: permission of instructor & program director)

\_\_\_\_\_\_ MI 799 *Thesis* *Research* (fall & spring) (prerequisites: permission of instructor & program director)