Plan of Study for Microbiology and Cell Science M.S. Students

**Fall, Year 1, Semester 1 – (9 Credits) – please be aware that some fellowships require 12 credits**

*MCB6930 – Seminar – (1 credit)
*MCB7922 – Journal Colloquy – (1 credit) – **Student must choose a faculty member’s journal club to join**
**MCB6940 – Supervised Teaching – (1 credit): Teaching MCB 2000L, 3020L, or 3023L, as assigned by Dr. Monika Oli
International students with a 23-27 on the TOEFL, or a 45-50 on the UF Speak test must take EAP 5836 concurrently with any teaching assignment
International students with below a 23 on the TOEFL, or below a 45 on the UF Speak test are not permitted to teach

MCB6905 – Experimental Microbiology – (1-3 credits) – **M.S. Non-Thesis students do not register for research credit (choose an elective)**

3 rotations through approved faculty labs: 4-weeks per rotation (Not for academic credit)

**Required Fall Modules (standard)**

BSC6459 – Fundamentals in Bioinformatics – (2 credits)
MCB6317 – Molecular Biology of Gene Expression – (1 credit)
MCB6318 – Comparative Microbial Genomics – (1 credit)
MCB6417 – Microbial Metabolism and Energetics – (1 credit)

**If weak in Genetics:**

MCB6417 – Microbial Metabolism and Energetics – (1 credit)
MCB6937 – Special Topics: Advanced Bacterial Genetics – (3 credits)

  * Delay BSC 6459, MCB 6318, and MCB 6317 until Fall, Year 2, Semester 4.

**If weak in Metabolism/Cell Physiology:**

MCB6317 – Molecular Biology of Gene Expression – (1 credit)
MCB6937 – Special Topics: Bacterial Physiology – (3 credits)

  * Delay BSC 6459, MCB 6318, and MCB 6417 until Fall, Year 2, Semester 4.

**Without a strong background in Genetics or Metabolism/Cell Physiology**

MCB6937 – Special Topics: Advanced Bacterial Genetics – (3 credits)
MCB6937 – Special Topics: Bacterial Physiology – (3 credits)

  * Delay BSC 6459, MCB 6317, MCB 6318, and MCB 6417 until Fall, Year 2, Semester 4.

*Seminar and Journal Colloquy are required every fall and spring semester (schedule permitting).
**The semester for the teaching requirement can vary depending on availability of assignments.
***You can take any course offered at UF as an elective if approved by your major professor.
Plan of Study for Microbiology and Cell Science M.S. Students

**Spring, Year 1, Semester 2 – (9 Credits)** – please be aware that some fellowships require 12 credits
*MCB6930 – Seminar – (1 credit)*
*MCB7922 – Journal Colloquy – (1 credit) – Student must choose a faculty member’s journal club to join (in conjunction with major professor)*
BCH6740 – Structural Biochemistry – (3 credits)

**Required Spring Modules**

MCB6355 – Microbial/Host Defense – (1 credit)
MCB6457 – Metabolic Regulation – (1 credit)

*Plus one of the following:*

MCB6465 – Microbial Metabolic Engineering – (1 credit)

-or-

MCB6772 – Advanced Topics in Cell Biology – (1 credit)

**If weak in Immunology:**

PCB 5235 – Immunology – (3 credits)

*Delay BCH 6740 until Spring, Year 2, Semester 5 -or- contact the graduate coordinator for alternative scheduling options*

**Summer, Year 1, Semester 3 – (6 credits)** – Summer is not required for M.S. non-thesis students unless you are on appointment
MCB6971 – Advanced Research (1-4 credits) *M.S. Non-Thesis students do not register for research credit (choose elective)*
MCB6905 – Experimental Microbiology – (1-4 credits)
(Can add electives as needed and reduce research credits)***

**Schedule Summary:**

Most M.S. students will complete all required coursework during the first 2 semesters of enrollment. M.S. students must complete 30 credits to graduate.

- M.S. Thesis students can only count 6 credits of MCB 6971 towards the 30 credits required for their degree
  - M.S. Thesis students must complete an oral defense of their thesis in order to graduate. Your thesis, and the time and manner of your defense will be organized with the student’s major professor and supervisory committee.
  - M.S. Non-thesis students must complete a comprehensive written examination in order to graduate. This should be organized with the student’s major professor and supervisory committee.

*Seminar and Journal Colloquy are required every fall and spring semester (schedule permitting).
**The semester for the teaching requirement can vary depending on availability of assignments.
***You can take any course offered at UF as an elective if approved by your major professor.