Plan of Study for Microbiology and Cell Science PhD 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
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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
MCB7979 – Advanced Research – (1-9 credits as needed for schedule to total 9 credits)
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 PhD 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)
**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
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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)** – please be aware that some fellowships require 8 credits
MCB7979 – Advanced Research – (1-8 credits as needed for schedule to total 6-8 credits)
(Can add electives as needed and reduce research credits)

**Schedule Summary:**

Most PhD students will complete all required coursework within the first 2-4 semesters of enrollment. Once complete, the student should prepare for the Written Qualifying examination, to be given by their PhD Committee during the 2nd Summer in the 2nd year of study. After that, the schedule will be comprised of MCB 6930, MCB 7922, and MCB 7979 (electives can be added as approved by the student’s major professor) until the student completes their oral defense, sometime in their third to fourth year in the program. Once the oral defense is completed successfully, the student will be admitted to candidacy, at which time they must register for MCB 7980 – Doctoral Research (instead of MCB 7979), until they present their dissertation and graduate.

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**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.