

Plan of Study for Microbiology and Cell Science PhD Students

1st Fall Semester, Year 1 Requirements:

Note that depending on a student's background at admission, some preliminary coursework may be required which would delay the first-year fall requirements until Fall semester, year 2.

*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 until the deficiency is remedied

MCB 6905 – Experimental Microbiology – 2 credits: Two rotations through approved faculty labs: 6-weeks per rotation

BSC6459 – Fundamentals in Bioinformatics – (2 credits)

MCB6317 – Molecular Biology of Gene Expression – (1 credit)

MCB6417 – Microbial Metabolism and Energetics – (1 credit)

1st Spring Semester, Year 1 Requirements:

Note that depending on a student's background at admission, some preliminary coursework may be required which would delay the first-year fall requirements until Fall semester, year 2.

BCH6740 – Structural Biochemistry – (3 credits)

MCB6355 – Microbial/Host Defense – (1 credit)

MCB6457 – Metabolic Regulation – (1 credit)

MCB6318 – Comparative Microbial Genomics – (2 credit)

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

**MCB6940 – Supervised Teaching – (1 credit): Teaching MCB 2000L, 3020L, or 3023L, as assigned by Dr. Monika Oli

1st Summer Semester, Year 1 Requirements:

Students must select a major professor and lab by the beginning of their first Summer Semester (typically the third term of enrollment). Students must meet with the graduate program advisor to discuss alternatives prior to the start of the first summer semester if a major professor and lab has not been selected.

Additional classes may be required prior to completing the above coursework depending on the academic experience of incoming students:

MCB 6937 – Bacterial Physiology – (3 credits) – Fall only

MCB 6937 – Advanced Bacterial Genetics – (3 credits) – Fall only

MCB 6937 – Molecular Genetics – (3 credits) – Spring only

PCB 5235 – Immunology – (3 credits) – Spring only

GMS 5905 – Fundamentals of Biochemistry and Molecular Biology – (4 credits) – Fall, Spring or Summer

BCH 5413 – Eukaryotic Molecular Biology and Genetics – (3 credits) – Fall, Spring, or Summer

All first-year student schedules will be set by the faculty in conjunction with the graduate program advisor. Students will be notified of their first-year course expectations after gaining admission to the program and prior to their first semester of enrollment.

*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.

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Example Schedule:

Many PhD students will complete all required coursework within the first two semesters of enrollment. Deviations from this schedule are possible based on the incoming experience of the student and the individual course suggestions of the major professor. The student should prepare for the Written Qualifying examination during the 2nd Summer in the 2nd year of study. Once the written exam is complete, the student typically has six months to prepare for the oral examination. Once the oral examination is completed successfully, the student will be admitted to candidacy, at which time they must register for MCB 7980 – Doctoral Research until they present their dissertation and graduate, typically in the 4th or 5th year.

Fall, 1st Semester: 9 credits

MCB6930 – Seminar – (1 credit)
MCB7922 – Journal Colloquy – (1 credit)
MCB6940 – Supervised Teaching – (1 credit)
BSC6459 – Fundamentals in Bioinformatics – (2 credits)
MCB6317 – Molecular Biology of Gene Expression – (1 credit)
MCB6417 – Microbial Metabolism and Energetics – (1 credit)
MCB6905 – Experimental Microbiology – (2 credits)

Spring, 2nd Semester: 9 credits

MCB6940 – Supervised Teaching – (1 credit)
BCH6740 – Structural Biochemistry – (3 credits)
MCB6355 – Microbial/Host Defense – (1 credit)
MCB6457 – Metabolic Regulation – (1 credit)
MCB6318 – Comparative Microbial Genomics – (2 credit)
MCB6772 – Advanced Topics in Cell Biology – (1 credit)

Summer, 3rd Semester: 6 credits

MCB 7979 – Advanced Research – (6 credits)

Fall, 4th Semester: 9 credits

MCB6930 – Seminar – (1 credit)
MCB7922 – Journal Colloquy – (1 credit)
MCB 7979 – Advanced Research – (7 credits)

Spring, 5th Semester: 9 credits

MCB6930 – Seminar – (1 credit)
MCB7922 – Journal Colloquy – (1 credit)
MCB 7979 – Advanced Research – (7 credits)

Summer, 6th Semester: 6 credits

MCB 7979 – Advanced Research – (6 credits)
Written Examinations (*to be organized with the major professor*)

Fall, 7th Semester: 9 credits

MCB6930 – Seminar – (1 credit)
MCB7922 – Journal Colloquy – (1 credit)
MCB 7979 – Advanced Research – (7 credits)

Spring, 8th Semester: 9 credits

MCB6930 – Seminar – (1 credit)
MCB7922 – Journal Colloquy – (1 credit)
MCB 7979 – Advanced Research – (7 credits)
Oral Qualifying Examinations (*to be organized with the major professor*)

Summer, 9th Semester: 6 credits

MCB 7980 – Doctoral Research – (6 credits)

Fall, 10th Semester: 9 credits

MCB6930 – Seminar – (1 credit)
MCB7922 – Journal Colloquy – (1 credit)
MCB 7980 – Doctoral Research – (7 credits)

Spring, 11th Semester: 9 credits

MCB6930 – Seminar – (1 credit)
MCB7922 – Journal Colloquy – (1 credit)
MCB 7980 – Doctoral Research – (7 credits)
**Student has now earned 90 credits and is eligible to graduate once they are prepared to present their dissertation, sometime in the 4th or 5th year*

*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.