

## Course Overview of MCDB PhD Program

### Year 1:

#### Fall Courses:

MCDB 5230 (3) Gene Expression (Core 1) MCDB  
MCDB 6000 (3) Intro to Lab Methods  
MCDB 6441 (1) Faculty Research Seminar

#### Spring Courses:

MCDB 5210 (3) Cell Structure & Fncn (Core 2)  
MCDB 6000 (3) Intro to Lab Methods  
MCDB 6000 (3) Intro to Lab Methods

### Annual expectations:

- TA undergraduate course in the fall and spring semesters
- Preliminary Exams-Part of Core 1 and 2 MCDB 5210/5230
- Must earn an overall average of B for exams
- Choose lab by the end of the first week of May
- Begin to form committee in spring (3 members)
- Submit residency ties to Colorado
- Complete four rotations. The first must be in MCDB

### Year 2:

#### Fall Courses:

GRAD 5000 (1) Responsible Conduct of Research  
MCDB 6000 (3) Intro to Lab Methods -chosen lab  
MCDB 6442 (2) Research Grant Writing ELECTIVES-credits variable

#### Spring Courses:

MCDB 7910 (2) Seminar Practicum MMB MCDB  
8990 (5) Doctoral Dissertation  
Electives if still needed

- Elective courses (level 5000 or above)
- Seminar presentation of research, once annually and weekly attendance expectation (MMB)
- Prepare comps proposal in the fall
- Begin bi-annual thesis committee progress meetings
- Comprehensive exam in the spring semester
- Thesis research begins in chosen lab
- PhD candidacy post comp exam-spring in Feb.
- Begin enrollment in dissertation credits

### Years 3 &4:

#### Fall Courses:

MCDB 8990 (5) Doctoral Dissertation

#### Spring Courses:

MCDB 8990 (5) Doctoral Dissertation

- Seminar presentation of research and weekly seminar attendance continues
- Thesis research continues
- Continue bi-annual committee meetings
- Progress of publications in consultation with PI and thesis committee

### Years 5 and beyond to defense:

#### Both semesters:

MCDB 8990 (5 per semester) Doctoral Dissertation

- Seminar presentation/attendance continues
- Submission of peer review paper
- Bi-annual committee meetings continue
- Thesis outline submission
- Dept. seminar & submit dissertation defense