

# MCDB Major Curriculum

## Common 4-Year Plan

### FIRST SEMESTER - FALL

- MCDB 1020 - 1 credit *recommended*
- First Semester Introduction to Biology (MCDB 1150 or EBIO 1210) - 3 credits
- MCDB 2 credit hour lab - 2 credits\*
- Coseminar (MCDB 1152) - 1 credit *recommended*
- General Chemistry 1 and Lab (CHEM 1113 & 1114) - 5 credits\*\*
- A&S Lower-Division Writing - 3 credits

### SECOND SEMESTER - SPRING

- Genetics (MCDB 2150) - 3 credits
- Coseminar (MCDB 2152) - 1 credit *recommended*
- General Chemistry 2 and Lab (CHEM 1133 & 1134) - 5 credits
- A&S Gen Ed (Social Science) - 3 credits
- A&S Gen Ed (Diversity: Global Perspective) or Elective - 3 credits

### THIRD SEMESTER - FALL

- Molecular Biology (MCDB 3135) - 3 credits
- Cell Biology Lab (MCDB 3140)\*\*\* - 2 credits
- Organic Chemistry 1 and Lab (CHEM 3311 and 3321) - 5 credits
- A&S Gen Ed (Arts & Humanities) - 3 credits
- Elective - 3 credits\*\*\*\*

### FOURTH SEMESTER - SPRING

- Cellular Biology (MCDB 3145) - 3 credits
- Statistics OR Calculus - 3-5 credits
- A&S Gen Ed (Social Science) - 3 credits
- A&S Gen Ed (Arts & Humanities) - 3 credits
- Elective - 3 credits\*\*\*\*

### FIFTH SEMESTER - FALL

- Upper-Division MCDB Elective - 3 credits
- Biochemistry (BCHM 4611) - 3 credits
- A&S Gen Ed (Social Science) - 3 credits
- A&S Gen Ed (Arts & Humanities) - 3 credits
- Elective - 3 credits\*\*\*\*

### SIXTH SEMESTER - SPRING

- Upper-Division MCDB Elective - 3 credits
- Developmental Biology (MCDB 4650) - 3 credits
- A&S Gen Ed (Social Science) - 3 credits
- A&S Gen Ed (Diversity: US Perspective) or Elective - 3 credits\*\*\*\*
- Elective - 3 credits\*\*\*\*

### SEVENTH SEMESTER - FALL

- MCDB Capstone - 3 credits
- A&S Upper-Division Writing - 3 credits
- A&S Gen Ed (Arts & Humanities) - 3 credits
- Elective - 3 credits\*\*\*\*
- Elective - 3 credits\*\*\*\*

### EIGHTH SEMESTER - SPRING

- MCDB Scientific Reasoning - 3 credits
- Upper Division Elective - 3 credits
- Elective - 3 credits\*\*\*\*
- Elective - 3 credits\*\*\*\*
- Elective - 3 credits\*\*\*\*

\*MCDB 2 credit hour lab may be taken with MCDB 1150 or MCDB 2150. Options include MCDB 1161, 1171, 1181, or 2171.

\*\*A student who has not had chemistry or struggled with chemistry is recommended to take Introduction to Chemistry (CHEM 1021) first. Please take the Chemistry Placement exam to determine the most appropriate class.

\*\*\*MCDB 3140 may be taken with MCDB 3135 or MCDB 3145.

\*\*\*\*Depending on credit hour requirements, some of the electives will have to be upper-division electives.