

BACHELOR OF SCIENCE IN MOLECULAR AND CELLULAR BIOLOGY

SYSTEMS AND BIG DATA SUB-PLAN

Sample Four Year Plan:

(Based on the 2026-27 Catalog)

*For the calculus-ready student preferring to start **with one laboratory science course** the first semester.*

FIRST YEAR

Fall

| | |
|---------------------------------|-----------|
| WRIT 101..... | 3 |
| MATH 122A/B or 119A..... | 5 |
| CHEM 151..... | 4 |
| Exp. Perspectives Gen Ed | 3 |
| MCB 195..... | 1 |
| UNIV 101..... | 1 |
| Total: | 17 |

Spring

| | |
|----------------------------|-----------|
| WRIT 102..... | 3 |
| MATH 129 or 263 | 3 |
| CHEM 152..... | 4 |
| ECOL 182R..... | 3 |
| ECOL 182L | 1 |
| Building Conn. Gen Ed..... | 3 |
| Total: | 17 |

SECOND YEAR

Fall

| | |
|---------------------------------|-----------|
| CHEM 241A | 3 |
| CHEM 243A | 1 |
| MCB 181R..... | 3 |
| MCB 181L | 1 |
| 2 nd language..... | 4 |
| Exp. Perspectives Gen Ed | 3 |
| Total: | 15 |

Spring

| | |
|---------------------------------|-----------|
| CHEM 241B | 3 |
| CHEM 243B | 1 |
| 2 nd language..... | 4 |
| Exp. Perspectives Gen Ed | 3 |
| CSC 250 or BE 434 | 3 |
| MCB 284..... | 3 |
| Total: | 17 |

THIRD YEAR

Fall

| | |
|---------------------------------|-----------|
| MCB 304..... | 4 |
| Civic Institutions Gen Ed | 3 |
| Building Conn. Gen Ed..... | 3 |
| Sub-Plan Elective..... | 3 |
| Upper Div. Free Elective..... | 3 |
| Total: | 16 |

Spring

| | |
|-------------------------------|-----------|
| MCB 305..... | 4 |
| Sub-Plan Elective..... | 3 |
| Sub-Plan Elective..... | 3 |
| UNIV 301..... | 1 |
| Upper Div. Free Elective..... | 3 |
| Total: | 15 |

FOURTH YEAR

Fall

| | |
|--------------------------------|-----------|
| MCB Lab or Honors Thesis I ... | 3 |
| MCB 306..... | 4 |
| General MCB Elective..... | 3 |
| PHYS 110 | 4 |
| Total: | 14 |

Spring

| | |
|-------------------------------|-----------|
| MCB Writing or Hon. Thesis II | 3 |
| Upper Div. Free Elective..... | 3 |
| Upper Div. Free Elective..... | 3 |
| PHYS 111 | 4 |
| Total: | 13 |

120 total units required; 42 units must be upper division

Updated on 3/13/2026 by K. Dyson