

**MILLIKIN UNIVERSITY**

**[B.S. Degree - Biology, Molecular/Cell Track] - [Molecular/Cell Program] 8 Semester Plan**

| <b>Semester #1</b>  | <b>Term:</b> | <b>Hours</b> | Spg/Fall/Evry | <b>Semester #2</b>   | <b>Term:</b> | <b>Hours</b> | Spg/Fall/Evry |
|---|--------------|--------------|---------------|--|--------------|--------------|---------------|
| BI 105/155: Ecology and Evolution & Lab                         |              | 4            |               | BI 108/158: Diversity of Life & Lab                              |              | 4            |               |
| CH 121/151: Gen Chem & Intro Chem Lab I                         |              | 4            |               | CH 224: Gen Inorganic Chem (or CH 232 Analytical Chem)           |              | 3            |               |
| CO 200: Public Speaking (or Math, See #9 Summary Points)        |              | 3            |               | CH 152: Introductory Chem Lab II                                 |              | 1            |               |
| IN 140: University Seminar                                      |              | 3            |               | IN 151: Critical Writing, Reading & Research II                  |              | 3            |               |
| IN 150: Critical Writing, Reading & Research I                  |              | 3            |               | MA 140: Calculus (or MA 115 Trigonometry, 3 credits)             |              | 4            |               |
| <b>Semester Total</b>   |              | <b>17</b>    |               | <b>Semester Total</b>  |              | <b>15</b>    |               |
| <b>Cumulative Total</b>   |              | <b>17</b>    |               | <b>Cumulative Total</b>  |              | <b>32</b>    |               |
| <b>Semester #3</b>  | <b>Term:</b> | <b>Hours</b> | Spg/Fall/Evry | <b>Semester #4</b>   | <b>Term:</b> | <b>Hours</b> | Spg/Fall/Evry |
| BI 240: Analysis of Biological Data (or Elective)(or 3 credits) |              | 4            |               | BI 305/355: Molecular and Cell Biology & Lab                     |              | 4            |               |
| BI 300: Genetics  |              | 4            |               | BI 392: Research (optional) (or 0 or 1 credit)                   |              | 2            |               |
| CH 301/251: Organic Chem I & Intermed Chem Lab I                |              | 4            |               | CH 302/252: Organic Chem II & Intermed Chem Lab II               |              | 4            |               |
| IN 250: US Cultural Studies                                     |              | 3            |               | IN 251: US Structural Studies                                    |              | 3            |               |
| MA 240: Calculus II (or CO 200 Public Speaking, 3 credits)      |              | 4            |               | _____ : Fine Arts (or 3 credits)                                 |              | 4            |               |
| <b>Semester Total</b>   |              | <b>19</b>    |               | <b>Semester Total</b>  |              | <b>17</b>    |               |
| <b>Cumulative Total</b>   |              | <b>51</b>    |               | <b>Cumulative Total</b>  |              | <b>68</b>    |               |
| <b>Semester #5</b>  | <b>Term:</b> | <b>Hours</b> | Spg/Fall/Evry | <b>Semester #6</b>   | <b>Term:</b> | <b>Hours</b> | Spg/Fall/Evry |
| BI 407: Molecular Genetics                                      |              | 4            |               | BI 330: General Microbiology                                     |              | 4            |               |
| BI 391: Research (optional) (or 0 or 1 credit)                  |              | 2            |               | BI 392: Research (optional) (or 0 or 1 credit)                   |              | 2            |               |
| CH 331: Biochemistry  |              | 3            |               | ICS ____ : International Cultures & Structures II (or 3 credits) |              | 4            |               |
| ICS ____ : International Cultures & Structures I (or 3 credits) |              | 4            |               | IN 350: Global Studies   |              | 3            |               |
| PY 111/171: College PY I & Physics Lab I (or PY 151/171)        |              | 4            |               | PY 112/172: College PY II & Physics Lab II (or 152/172)          |              | 4            |               |
| <b>Semester Total</b>   |              | <b>17</b>    |               | <b>Semester Total</b>  |              | <b>17</b>    |               |
| <b>Cumulative Total</b>   |              | <b>85</b>    |               | <b>Cumulative Total</b>  |              | <b>102</b>   |               |
| <b>Semester #7</b>  | <b>Term:</b> | <b>Hours</b> | Spg/Fall/Evry | <b>Semester #8</b>   | <b>Term:</b> | <b>Hours</b> | Spg/Fall/Evry |
| BI ____ : Biology Content Category (or 3 credits)               |              | 4            |               | BI ____ : Biology Content Category (or 3 credits)                |              | 4            |               |
| BI 481: Senior Seminar (or 0 credits if taken in Spring)        |              | 1            |               | BI 482: Senior Seminar (or 0 credits if taken in Fall)           |              | 1            |               |
| BI 391: Research (optional) (or 0 or 2 credits)                 |              | 2            |               | CH 432: Advanced Biochemistry (opt) (or 0 credit if not taken)   |              | 3            |               |
| CH 303: Physical Chemistry (opt) (or Elective) (or 3 credits)   |              | 4            |               | HS ____ : Historical Studies                                     |              | 3            |               |
| CH 354: Biochemistry Lab (opt) (or 0 credit if not taken)       |              | 1            |               | _____ : Elective (or 3 credits)                                  |              | 4            |               |
| EN ____ : Literature  |              | 3            |               |  |              |              |               |
| <b>Semester Total</b>   |              | <b>15</b>    |               | <b>Semester Total</b>  |              | <b>15</b>    |               |
| <b>Cumulative Total</b>   |              | <b>117</b>   |               | <b>Cumulative Total</b>  |              | <b>132</b>   |               |

**NOTES:**

- The schedule above provides a template. Schedules will vary by student. Summer courses may be taken at Millikin or another institution (course approved through Registrar)
- Undergraduate graduation hour requirements: 124 credits
- To be considered a full time student you must enroll in a minimum of 12 credit hours per semester.
- If taking Advanced Placement courses in high school or considering dual enrollment in high school/community college courses, please make sure you speak with a faculty advisor or Registrar's Office at Millikin prior to your selection/enrollment.