

# Bachelor of Science in Molecular and Cellular Biology

## Major in Molecular and Cellular Biology Major Requirements - 10 to 10.5 units

| Code  | Title   | Units          |
|---|---|----------------|
| <b>General Education Requirements</b>   |   |                |
| The student must complete the General Education Requirements of the College of Arts & Sciences. |   | 9              |
| <b>Major Requirements</b>   |   |                |
| BIOL 100  | Current Perspectives Biology  | 0              |
| BIOL 141P & BIOL 142P   | Introductory Biology: Biochemistry, Cell Biology and Molecular Genetics and Introductory Biology: Animal and Plant Physiology | 2              |
| BIOL 243Q   | Biostatistics   | 1              |
| BIOL 300  | Molecular Biology and Biotechnology   | 1              |
| BIOL 497  | Research Proposal   | .5             |
| BIOL 498  | Senior Project I  | 1              |
| BIOL 499  | Senior Project II   | 0.5            |
|   |   | to             |
|   |   | 1              |
| Select two units from the following:  |   | 2              |
| CHEM 204  | Biochemistry I  |                |
| BIOL 302  | Genetics  |                |
| BIOL 425  | Cell Biology  |                |
| Select two units from the following:  |   | 2              |
| BIOL 301  | Microbiology  |                |
| BIOL 302  | Genetics  |                |
| BIOL 314  | Immunology and Hematology   |                |
| BIOL 315  | Endocrinology   |                |
| BIOL 401  | General Physiology  |                |
| BIOL 409  | Neurobiology  |                |
| BIOL 410  | Developmental Biology   |                |
| BIOL 415  | Cancer Biology  |                |
| BIOL 425  | Cell Biology  |                |
| CHEM 204  | Biochemistry I  |                |
| <b>Collateral Requirements</b>  |   | <b>5</b>       |
|   |   | <b>to</b>      |
|   |   | <b>6</b>       |
| CHEM 141P & CHEM 142P   | General Chemistry I and General Chemistry II  |                |
| CHEM 201 & CHEM 301   | Organic Chemistry I and Organic Chemistry II  |                |
| MATH 151  | Mathematics for Life Sciences   |                |
| or MATH 130A  | Calculus I with Review Part 2   |                |
| or MATH 140A  | Calculus I with Analytic Geometry   |                |
| <b>General Electives</b>  |   | <b>8</b>       |
| <b>Total Units</b>  |   | <b>32-33.5</b> |

## General Education Requirements

All students in the College of Arts and Sciences must meet General Education requirements in addition to specific requirements within the major area of study.

Each student must complete at least four writing or writing enhanced (WE) courses to complete the University Writing Requirement. At least two of these courses must be from General Education. Based upon Admissions application information, students may be placed in ENGL 100; ENGL 100 will count toward the Writing requirement if completed with a minimum grade of C.

A single course may not be used to meet more than one of the General Education requirements, but a single course may count toward a General Education requirement and the student's major or minor requirements, as well as count as a Writing Enhanced course in the Writing requirement. Students should check with their advisor regarding the eligibility of transfer credits to meet General Education requirements after students have enrolled at Stetson. A key component of a liberal education is to learn about the modes of inquiry from a diverse set of disciplines, so no more than 3 courses used to meet General Education requirements may come from a single department and at least 16 of the 32 units required for graduation must come from departments outside the department of the major.

For many majors, certain courses outside the major field of study are required. These courses are called "collateral requirements."

A student majoring in Education may count among the 32 units as many in the major as are required for completion of an approved program for teacher certification by the State of Florida.

| Code   | Title              | Units    |
|--|--------------------|----------|
| <b>Foundations <sup>1</sup></b>  |                    |          |
| Writing Requirement  |                    |          |
| FSEM 100   | First Year Seminar | 1        |
| Quantitative Reasoning (any Q course)                                  |                    | 1        |
| Junior Seminar   |                    | 1        |
| <b>Knowledge of Human Cultures and the Natural World</b>               |                    |          |
| Select five of the following: <sup>2</sup>                             |                    | 5        |
| Creative Arts (any A course, or 4 - MUSC, MUSA or MUSE credit courses) |                    |          |
| Culture and Belief (any B course)                                      |                    |          |
| Historical Inquiry (any H course)                                      |                    |          |
| Individuals, Societies, and Social Systems (any S course)              |                    |          |
| Modern Languages (any L course)  |                    |          |
| Physical and Natural World (any P course)                              |                    |          |
| <b>Personal and Social Responsibility</b>                              |                    |          |
| Select any 'Stetson Values (V)' course                                 |                    | 1        |
| <b>Total Units</b>   |                    | <b>9</b> |

## Cultural Events/Campus Engagement

In addition to completing 32 course units, students join Stetson's intellectual and creative life outside the classroom by participating in at least 24 approved cultural events at Stetson. These events include lectures by distinguished visitors, musical performances, plays, and art shows. Students may also view the list of approved cultural

events<sup>3</sup> under Calendar of Events at <https://www.stetson.edu/other/calendar/> and selecting Deland Campus.

<sup>1</sup> Foundation courses may not be taken pass/fail.

<sup>2</sup> 1 unit each from 5 out of the 6 areas.

<sup>3</sup> The Calendar of Events (<https://www.stetson.edu/other/calendar/>) for the Deland campus identifies Cultural Events as those marked with a turquoise blue colored square in the lower-left corner of the event block.