Program Code: SBI, Academic Year 2020-21 Total credits required for the degree: 120

#### **Biology Requirements: 30 credits**

| Course                      | Credits |
|-----------------------------|---------|
| BL 1100 (3) and BL 1110 (1) | 4       |
| BL 1200 (3) and BL 1210 (1) | 4       |
| BL 1580                     | 1       |
| BL 2200 (3) and BL 2210 (1) | 4       |
| BL 2700                     | 3       |
| BL 3020                     | 3       |
| BL 3300                     | 3       |
| BL 3782                     | 2       |
| BL 4030                     | 3       |
| BL 4840                     | 3       |

### **Chemistry Requirements: 11 credits**

| Course                      | Credits |
|-----------------------------|---------|
| CH 1150 (3) and CH 1151 (1) | 4       |
| CH 1160 (3) and CH 1161 (1) | 4       |
| CH 2410                     | 3       |

### **Computer Science Requirements: 18 credits**

| Course  | Credits |
|---------|---------|
| CS 1121 | 3       |
| CS 1122 | 3       |
| CS 2311 | 3       |
| CS 2321 | 3       |
| CS 3425 | 3       |
| CS 4321 | 3       |

## Mathematics Requirements: 17 to 18 credits

| Course                    | Credits |
|---------------------------|---------|
| MA 1160 <b>or</b> MA 1161 | 4/5     |
| MA 2160                   | 4       |
| MA 2330                   | 3       |
| MA 3715                   | 3       |
| MA 3740                   | 3       |

### **Biology Capstone Requirement: 2 to 3 credits**

Select either Biology Capstone option. Research credits in Biology (BL 4000/4001) may be taken individually and require arrangement with the instructor. Additional research credits beyond the capstone requirement count as free elective credits.

| Course                           | Credits |
|----------------------------------|---------|
| BL 4510 <b>or</b>                | 2       |
| (BL 4000 or BL 4001) and BL 4530 | 3       |

# **Bioinformatics Elective: 3 credits**

| Course  | Credits |
|---------|---------|
| BL 4300 | 3       |
| FW 4082 | 3       |
| FW 4099 | 3       |

## **Approved Electives: at least 6 credits**

Select at least 6 credits of approved electives from the lists below. Some courses may have additional prerequisite requirements.

| Bio | logy / | Approved | d Electives |
|-----|--------|----------|-------------|
|     |        |          |             |

| Course             | Credits |
|--------------------|---------|
| BL 3210 or BL 3310 | 4/3     |
| BL 3820            | 2       |
| BL 4020            | 3       |
| BL 4370            | 3       |

### **Chemistry Approved Electives**

| Course  | Credits |
|---------|---------|
| CH 3510 | 3       |
| CH 5560 | 3       |

# Computer Science Approved Electives

| Course  | Credits |
|---------|---------|
| CS 1142 | 3       |
| CS 3141 | 3       |
| CS 3311 | 3       |
| CS 3331 | 3       |
| CS 4811 | 3       |
| CS 4821 | 3       |
| CS 5811 | 3       |
| CS 5821 | 3       |
| CS 5841 | 3       |

# Mathematics Approved Electives

| Course  | Credits |
|---------|---------|
| MA 3160 | 4       |
| MA 3720 | 3       |
| MA 4710 | 3       |
| MA 4720 | 3       |
| MA 4760 | 3       |
| MA 4770 | 3       |
| MA 4780 | 3       |
| MA 4790 | 3       |

### **Physics Approved Electives**

| Course  | Credits |
|---------|---------|
| PH 2100 | 3       |

# University-Wide Approved Electives

| Course  | Credits |
|---------|---------|
| UN 3002 | 2       |
| UN 5390 | 3       |

# **General Education Core and HASS**

Courses used to complete Core and HASS requirements may not be used to complete other degree requirements. Students must complete 12 credits of Core coursework and 12 credits of Humanities, Fine Arts, and Social Science (HASS) coursework. Repeatable courses may not be repeated for general education credit. Core and HASS courses can be found on the <u>General Education</u> page.

## Core: 12 credits

| Course                                      | Credits |
|---|---------|
| UN 1015                                     | 3       |
| UN 1025 or an upper level modern language   | 3       |
| Critical and Creative Thinking              | 3       |
| Social Responsibility and Ethical Reasoning | 3       |

## HASS: 12 credits

Six of the 12 HASS credits must be at the 3000 or 4000 level (an upper division language course in place of UN1025 does not meet this requirement). No more than three credits may come from the HASS Restricted course list.

| Course   | Credits   |
|--|-----------|
| Communication/ Composition   | Minimum 3 |
| Humanities and Fine Arts   | Minimum 3 |
| Social and Behavioral Sciences                                     | Minimum 3 |
| Course from any list above or from the Restricted HASS course list | 0 to 3    |

## **Co-curricular Activities: 3 credits**

Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree. Only courses on the co-curricular course list are eligible. Half credit (0.5) courses may be repeated to a maximum of one time for co-curricular credit. Find eligible courses on the <u>General Education</u> page.

| Course | Credits |
|--------|---------|
|        |         |
|        |         |
|        |         |
|        |         |
|        |         |
|        |         |

## Free Electives: 5 to 9 credits

Any coursework is allowable, excluding co-curricular and coursework below the 1000-level.

| Course | Credits |
|--------|---------|
|        |         |
|        |         |
|        |         |
|        |         |
|        |         |
|        |         |