BIOLOGY MAJOR -SECONDARY EDUCATION

Acceptance to Major Requirements

Course Requirements: BIOL 101 Foundations of Biology, BIOL 201 Intermediate Cell Biology and Genetics, and any other 4-credit course in the major

Minimum Cumulative GPA: 2.50

Other Requirements: Must have a Biology faculty member as Academic Advisor

Acceptance to Education Department

Students must make formal application to the Education Department for admission to the Teacher Education Program. Application is made while students are enrolled in EDUC 212 or EDUC 213. Descriptions of all admission requirements and the application process are specified on the Education Department's website at https://www.csbsju.edu/education/ student-resources/apply-to-the-program (https://www.csbsju.edu/ education/student-resources/apply-to-the-program/)

Due to the professional nature of this program, students must:

- Maintain a cumulative, content area, department, and additional license GPA of 2.50 or above. In addition, a grade of C or above is required in content area, minor, and additional license courses
- Successfully complete edTPA during student teaching
- Complete background checks as required by the districts in which students are placed for field and student teaching experiences. Individual schools and districts will determine student eligibility to participate in field experiences per their policies regarding background checks.
- Purchase liability insurance through Education Minnesota on an annual basis.
- Students should reference the Education Department website for additional information about requirements.

Please see Secondary Education Minor (https:// catalog.csbsju.edu/catalog/academic-departments/ education/secondary-education-minor/ #requirementstext) for Education Department requirements.

Required Biology Major Courses

| • | Code | Title | Hours |
|---|--------------------------|---|-------|
| | BIOL 101 | Foundations of Biology | 4 |
| | BIOL 201 | Intermediate Cell Biology and Genetics | 4 |
| | BIOL 202 | Evolution in Action | 4 |
| | 20 credits from t | he following ¹ | 20 |
| | BIOL (300 Level) courses | | |
| | CSCI 317D | Bioinformatics (2 credits from the following) | |
| | 2 credits from th | e following | 2 |
| | BIOL 380@ (Topics) | | |
| | BIOL 372 | Biological Research | |
| | COLG 398 | Distinguished Thesis Essay, Research or Creative Project | |

| MATH 124 | Probability and Statistical Inference | |
|------------------------|---|---|
| CHEM 125 | Introduction to Chemical Structure and Properties | |
| CHEM 201 | Purification and Separation Lab I | (|
| One of the follow | ving: | |
| MATH 118 | Essential Calculus | |
| MATH 119 | Calculus I | |
| MATH 120 | Calculus II | |
| PHYS 105 | Physics for the Life Sciences I | |
| CHEM 250 & CHEM 202 | Reactions of Nucleophiles and Electrophiles (Reactivity 1) and Purification and Chromatography Lab II | |
| CHEM 251 & CHEM 203 | Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2) and Synthesis Lab | |
| CHEM 255 & CHEM 205 | Macroscopic Chemical Analysis and Chemical Measurement Lab | |
| CSCI 130 | Concepts of Computing: Science and Applications | |
| CSCI 140 | Concepts of Computing: Science and Mathematics | |
| CSCI 150 | Introduction to Computing in the Liberal Arts and Sciences | |
| CSCI 239 | Discrete Computational Structures | |
| ENVR 175 | Earth Systems Science | |

¹ Cannot count BIOL 371, 373A, 373B, 373J, 373O, 373P, 373R, or 374.

Additional Requirements:

General Education Requirements:

All undergraduate students must complete the requirements of the Integrations Curriculum (IC) which is designed to ensure all of our students receive a liberal arts education. Please review details of the Integrations Curriculum (https://catalog.csbsju.edu/catalog/academicprograms-policies-regulations/integrations-curriculum/) requirements here (https://catalog.csbsju.edu/catalog/academic-programs-policiesregulations/integrations-curriculum/).

Graduation Requirements:

In addition to the Integrations Curriculum, all undergraduate students must meet the following minimum degree requirements to earn their degree from CSB and SJU.

Credits: 124 total credits, 40 of which must be from upper division coursework

GPA: 2.0 or higher*

 $\ensuremath{\textbf{Residency:}}$ At least 24 of your last 32 credits must be completed at CSB and SJU

Please visit Graduation (https://catalog.csbsju.edu/catalog/academicprograms-policies-regulations/graduation/) under the Academic Policies and Regulations (https://catalog.csbsju.edu/catalog/academicprograms-policies-regulations/) portion of the catalog for additional details regarding degree requirements.

* Cumulative GPA as well as major(s)/minor(s) GPA. Please note some majors/minors may require a higher GPA to earn their degree.

Biology Major with a Minor in Secondary Education

| Luucation | | |
|-------------------------|--|-------|
| Course | Title | Hours |
| First Year | | |
| Fall | | |
| CHEM 125 | Introduction to Chemical Structure and Properties | 5 |
| & CHEM 201 | and Purification and Separation Lab I | |
| INTG 100 | Foundations (LF) | 4 |
| THEO 100 | Theological Explorations (TE) | 4 |
| BIOL 101 | Foundations of Biology | 4 |
| INTG 105 | College Success | 1 |
| | Hours | 18 |
| Spring | | |
| EDUC 111 | Introduction to Teaching and Learning in a Diverse World | 4 |
| LANG 111 | | 4 |
| Elective (INTG Require | ment) | 4 |
| BIOL 201 | Intermediate Cell Biology and Genetics | 4 |
| | Hours | 16 |
| Second Year | | |
| Fall | | |
| MATH 119 | Calculus I | 4 |
| LANG 112 | | 4 |
| BIOL 202 | Evolution in Action | 4 |
| Elective (INTG Require | ment) | 4 |
| | Hours | 16 |
| Spring | | |
| EDUC 203 | Development, Learning, and Mental Health in Childhood and Adolescence | 4 |
| BIOL 316 | General Genetics | 4 |
| LANG 211 | | 4 |
| EDUC 379A | Educational Psychology: Myths Versus Science | 4 |
| EDUC 213 | Clinical Experience for K-12/5-12 Majors | 2 |
| | Hours | 18 |
| Third Year | | |
| Fall | | |
| BIOL 323 | Animal Physiology | 4 |
| or BIOL 327 | or Plant Physiology | |
| BIOL 334 | General Ecology | 4 |
| or BIOL 337 | or Aquatic Ecology | |
| MATH 124 | Probability and Statistical Inference | 4 |
| INTG REQ or Elective | | 4 |
| | Hours | 16 |
| Spring | | |
| INTG REQ or Elective | | 4 |
| BIO 3@@ | | 4 |
| Additional MATH/COM | | 4 |
| Theological Integration | | 4 |
| EDUC 305 | Human Exceptionalities: School, Home, and Community | 1 |
| | Hours | 17 |
| Fourth Year | | |
| Fall | | |
| EDUC 355B | Social Science Pedagogy in Grades 9-12 | 4 |
| EDUC 390 | Ethics in Human Relations | 4 |
| | | |

| BIOL 307 | Biology of Microorganisms | 4 |
|-----------------|---------------------------|-----|
| Bio Capstone | | 2 |
| EDUC 359 | Issues in Education K-12 | 2 |
| | Hours | 16 |
| Spring | | |
| EDUC 36@ Studen | 16 | |
| | Hours | 16 |
| | Total Hours | 133 |

Total