

| BS Science Teaching, Life Science 9-12 | |
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| Department of Biological Sciences: Phone (320) 308 - 2039 or Biology@stcloudstate.edu | |
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| First Semester | Second Semester |
| ¹ BIOL 151 or 152 (4cr) ² CHEM 210 (4cr) ^{2,3} MATH (3-5cr) MATH 112 recommended ENGL 191 (4cr) Total semester credits = 15 to 17 | BIOL 151 or 152 (4cr) CHEM 211 (4cr) CMST 192 (3cr) RIS Liberal Education from goal 7 (3cr) Total semester credits = 14 |
| Third Semester | Fourth Semester |
| ⁸ BIOL 202 (4cr) ED 300 (3cr) ⁴ CPSY 262 (3cr) PHIL 194 (3cr) ⁵ SPED 203 (3cr) Total semester credits = 16 | BIOL 306 (4cr) BIOL 308 (4cr) CPSY 361 (3cr) Liberal Education/Diversity course – MUSM 125 (3cr) Total semester credits = 14 |
| Fifth Semester | Sixth Semester |
| BIOL 206 (4cr) BIOL 312 (4cr) Democratic Citizenship 195 (3cr) Liberal Education/Diversity course TH 270 (3cr) Total semester credits = 15 | BIOL 262 (4cr) BIOL Elective (2-4cr) ⁶ SCI 430 (3cr) ⁶ STEM 421 (1cr) ⁶ ED 421 (2cr) ⁶ ED 451 (2cr) ⁶ ED 460 (2cr) Total semester credits = 16-18 |
| Seventh Semester | Eighth Semester |
| ^{5/6} SCI 420 (3cr) ⁶ STEM 420(1cr) ⁶ IM 422 (2cr) ⁶ ED 431 (2cr) HURL 497 (3cr) Total semester credits = 15 | ⁷ SCI 440 (3cr) ED 466 (9cr) Total semester credits = 12 |

NOTES: This program meets Professional Educator Licensing and Standards Board (PELSB) requirements for beginning teachers of life science at the 5-12 grade levels. If students in this major intend to graduate in four years, they must:

- NOT complete the core or general education in the first two years--they need to take the introductory science classes.
- Take ⁶BIOL 202 as indicated above--⁸BIOL 202 is only offered during Fall semester.
- Not need remedial work in high school math or chemistry (i.e. need MATH 070, MATH 072 or CHEM 140).

Taking some courses during summer session makes finishing the program in four years easier and may improve a student's GPA. This Degree Map shows the suggested courses to be taken each semester to complete this degree in four years, but this is not the only option. For example, transfer students can substitute courses if approved by the registration or transfer office.

¹ BIOL 151 and 152 may be taken in any order, i.e., 151 is **not** a prerequisite for 152. Prerequisite to BIO 151/152: High School Biology and Chemistry-grades of C or better.

² Placement exams are required in order to enroll in any CHEM or MATH course. For information contact the Chemistry Department (<https://www.stcloudstate.edu/programs/chemistry/default.aspx>) and the Math Department at <https://www.stcloudstate.edu/programs/math/default.aspx>.

³ Students **should not take MATH/STAT 193**. The recommended Math courses are MATH 112, 113, 115, or 211. These will satisfy Goal Area 4 classes.

⁴ CPSY 262 and SPED 203 will serve as 6 credits in Goal Area 5.

⁵Life Science Teaching majors must present the results of research done in SCI 420 during a seminar the following semester.

⁶SCI 430, STEM 421, ED 421 and ED 451 must be taken concurrently (spring semester), as must SCI 420, STEM 420, IM 422 and ED 431 (fall semester), but the sets of courses can be taken in either order. Both STEM 420 and SCI 430 are practicums that take place in area schools in which students MUST spend 3 hours each afternoon, M-Th, between 12 and 4 pm. Both STEM 420 and STEM 431 consist of a total of 6 weeks, or two non-consecutive 3-week sessions. They should be completed the two semesters prior to student teaching. ENGL/ED 460 and SPED 203 must be taken prior to or during these two semesters.

⁷SCI 440 must be concurrent with ED 466 (student teaching). No other courses may be taken during the student teaching semester. Students must have earned a cumulative GPA of 2.75 in order to qualify to student teach.

The degree plan is a conservative approach to completing the Liberal Education requirements. Students should meet with an advisor to select courses that satisfy multiple goal areas and requirements. It is also essential to see your biology advisor during the first semester you are enrolled in biology courses. Biology electives are frequently offered either Fall or Spring semesters. Additional courses may be offered intermittently. Some courses, particularly 100-200 level courses and some major electives, are offered in the summer. Contact Departments after February 1st or later to inquire about expected summer course offerings. Note that SCSU requires a minimum of 120 semester credits to earn a Bachelor of Science degree. The 9-12 Science Teaching, Life Science program meets the requirement that 40 of these credits must be at the 300 or 400 level.

Admission to Science Teaching major

You are directly admitted into the B.S. Science major when you state your intention to major in science teaching. You are expected to meet with your assigned advisor every semester to plan coursework, receive your registration access code, and ensure that you are meeting program requirements.

Admission to Teacher Education

As of March 1, 2018, the Teacher Education application is no longer required.

Professional Education Requirements

ED 300; CPSY 262; CPSY 361; IM 422; HURL 497; ED 451; ENGL 460 or ED 460; SPED 203; ED 421; ED 431; ED 466

Grade requirements

Grades of C (NOT C-) or better are required in all courses, including all professional education, science and mathematics courses.

STEM Admissions Event: All B.S. Science majors must attend a STEM admissions event. These take place near the middle of each fall and spring semester. During this event, you will participate in an interview and submit a writing sample. An email announcing this event will be sent out approximately two weeks prior to the event. You should participate in this event early in your program.

Applications for student teaching and graduation:

- Apply for student teaching one full year prior to your intended student teaching date.
- During that semester, you must attend one Student Teacher Roundup meeting in order to complete the application process. Watch for signs around the Education Building to see when these meetings are scheduled.
- For more information on student teaching eligibility, see <https://www.stcloudstate.edu/soe/teachereducation/student-teaching.aspx>
- Apply for graduation one full year prior to your intended graduation date. <https://www.stcloudstate.edu/srfs/graduation/default.aspx>

MN TEACHER LICENSURE EXAMINATIONS (MTLE)

There are two sets of MN Teacher Licensure Exams. If basic skills competency has not already been demonstrated, the **Essential Academic Skills** tests should be taken early in the major. The **Science Content and Pedagogy** exams should be taken prior to graduation.

1. The **NES Essential Academic Skills** tests (3 separate exams) assess basic skills in reading, writing, and mathematics. These are no longer required for the teaching license you will earn (a tier-three license), but you will be required when you apply to transition to a tier-four license after three successful years of teaching experience. There are several ways to meet this basic skills requirement. See 'Passing Score' at <https://www.stcloudstate.edu/teacherlicensure/testing/basic-skills.aspx> to see how this requirement can be met. It is in your best interest to take and pass the exams (or meet this basic skills requirement through one of the other methods) before you graduate but you are not required to do so.
2. The second set of MTLE exams (2 separate exams) assess science content and pedagogy. The science content exam should be taken prior to student teaching. The pedagogy exam can be taken just prior to or during student teaching. Both must be **passed** to earn licensure.

Programs at St. Cloud State University (SCSU) that lead to a professional licensure or certification are intended to prepare a student for potential licensure or certification in Minnesota. While the SCSU programs meet the relevant academic requirements set by the licensure or certification board/agency in Minnesota, they may or may not meet the educational requirements for a licensure or certification in another state. If you are planning to seek professional licensure or certification outside Minnesota it is important for you to know the specific requirements of the state in which you intend to apply for licensure or certification.

