

## Learning Goals for the Integrated Science B.S. Secondary Certification in CASL

1. Students will learn science content and scientific thinking in Biology, Chemistry, Earth/Space Science and Physics that will enable them to teach secondary science students in grades 8-12. Mastery of science content will be measured by passage of the secondary Integrated Science Test of the Michigan Test for Teacher Certification (MTTC). NSCI 331, 332, 333
2. Students will demonstrate an understanding of the various aspects of scientific thinking and practice such as: abstract reasoning, critical thinking, analyzing data, and the ability to draw evidence-based conclusions. NSCI 331,332, 333
3. Students will be able to demonstrate an ability to consider how their science content knowledge will be conveyed to future 8-12 students. This goal will be assessed by examining their reflective statements submitted as a required assignment in NSCI 331, 332 or 333. Integrated Science students are required to take one of these three courses.  
NSCI 331,332,333