

Teaching Science Seminar



**SCIENCE
LITERACY
PROGRAM**

BI/CH/GEOL/PHYS 407/507 Seminar: Teaching Science

R 10:00-11:50, 202 CAS, 2 credits

All graduate or undergraduate students who are interested in exploring the theory and practice of science teaching are welcome to sign up for this course. We will read, discuss, and apply a variety of techniques from science education literature to improve science education. Students will be active participants in the exploration of scientific teaching. Using concepts and information introduced in class, students will develop and teach an activity to be used in an undergraduate science course.

The course is cross-listed so students are welcome to sign up for credit in Biology, Chemistry & Biochemistry, Geological Sciences or Physics.

The objective of the Teaching Science seminar is to provide students with an opportunity to practice evidenced-based and student-centered scientific teaching. By the end of the course students will be able to:

- Identify and implement the elements of backward design creating goals, objectives, assessment, activities for a teaching tidbit
- Define evidence-based and students-centered scientific teaching and describe how it can be implemented in a science classroom
- Plan a class lesson including the first day of the term
- Identify the diversity of student backgrounds in university courses and describe how to create an inclusive classroom environment
- Write course and activity goals and learning objectives
- Present non-lecture activity that teaches students content with clear metrics for proficiency

Questions? Contact: Elly Vandegrift ellyvan@uoregon.edu or Mark Carrier mcarrier@uoregon.edu

CRNs	Biology	Chemistry	Geological Sciences	Physics
Undergraduate	38657 BI 407	38882 CH 407	38704 GEOL 407	38721 PHYS 407
Graduate	38655 BI 507	38883 CH 507	38705 GEOL 507	38722 PHYS 507



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