

STEM Ambassadors

Fall 2022

Interdisciplinary Studies (INTDS) 102/302 – STEM Education

Section # 51007/52884

INTDS 102: Section 51007 2 Units
INTDS 302: Section 52884 Non-credit

Class Times: *Lecture:* F, 12:00-12:50pm, PHY-77

Lab: 3 hours per week, arranged

Instructors / Contact Information / Office Hours:

Dr. John Heathcote PHY-78 (559) 494-3000 x3215
Cell: (559)643-5469

john.heathcote@reedleycollege.edu

Office Hours: Mondays, 11:00-11:50am
Tuesdays, 12:00-1:50pm
Wednesdays, 11:00-11:50am
Fridays, 11:00-11:50am

Emanuel Delgado

Textbook: None

Prerequisites: None

Grading:

Lab Hour Grade	30%
Ambassador Activities Grade	30%
Group Projects	20%
Individual Assignments	20%

Lab Hour Grade:

The lab portion of this course is satisfied by the students' participation in college outreach activities, including tutoring high school or college students, or leading STEM activities both on- and off-campus. Other activities that involve preparation for these activities or activities that involve learning skills useful as a STEM Ambassador will also be counted for lab time. Over the course of the term, you are expected to participate in an average of 3 hours per week (3×15 weeks = 45 hours). Each week, you will be required to submit a list of your STEM activities and the amount of time that you spend on each one.

Note: You can count up to 15 hours of paid activities (such as tutoring). You can count an unlimited amount of volunteer activities.

For your final lab hour total, your score for this portion of the grade will be based on your hours compared to the goal (45 hours).

Ambassador Activities Grade:

We will be planning certain activities that we will participate in as a group. These activities include the STEM Training Day, the Padres Como Compañeros Conference, robotics and engineering competitions, outreach events at the new math center, and any visits to local schools / after-school programs. You are not required to attend all of these events, but this portion of the grade will be based on how many hours you participated in these events. The goal is to reach a total of 15 hours. (These hours also count for regular lab hours as well.)

Group Projects:

In order to develop new outreach activities promoting STEM careers, you will take part in group projects throughout the term. Each of these projects will be graded. In addition to your team grade, you may receive an individual grade based upon your level of participation with your group.

Individual Assignments:

As an individual, you will also complete assignments related to the theme of the course: STEM Education

Grades:**For INTDS 102:**

90 - 100%	A
80 - 89%	B
70 - 79%	C
60 - 69%	D
< 60%	F

For INTDS 302:

70 - 100%	P
< 60%	F

Attendance & Participation: Your attendance and participation are important. Attendance will be taken at the beginning of each class period. Please let me know if you are going to miss a class meeting so that I can make sure that you are up to date in the course. **Since this class meets once per week, students missing (2) or more classes can be dropped for non-attendance.**

Expectations of STEM Ambassadors:

When you visit a school or act as a host, you are representing Reedley College. Therefore, you are expected to dress appropriately and to behave professionally.

Appropriate Apparel: When acting as a STEM Ambassador, you are expected to dress appropriately. Typically, this will involve wearing our STEM Ambassador vests over your clothing. Inappropriate clothing would include items such as shirts with foul language or offensive images, low cut clothing, excessively short skirts or shorts, or low riding pants. Please be aware that one role of this class is to prepare you for professional work.

Professional Behavior: When acting as a STEM Ambassador, students are expected to avoid profane language and to avoid inappropriate conversations. Keep in mind that you are the face of Reedley College, and the way that you act reflects upon our school.

Class Communication:

Communication between students and the instructors teaching the course or leading outreach activities is very important. We will communicate via Canvas announcements and messages for general class announcements.

Accommodations for Students with Disabilities:

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

Add Date:	Friday, August 26	Last day to add a course
Drop Date:	Friday, October 7	Last day to drop this course
Holidays:	Monday, September 5	Labor Day
	Friday, November 11	Veterans' Day
	Thursday-Friday, November 24-25	Thanksgiving Holiday

Course Description:

This is a course on educational pathways in STEM (Science, Technology, Engineering, and Math). Students will learn about educational requirements for STEM fields and academic majors available at Reedley College and transfer universities. Students will prepare STEM presentations to inspire other students to pursue degrees in STEM fields.

Course Objectives:

- Prepare and lead outreach presentations regarding STEM educational requirements for K-12 students.
- Investigate possible transfer universities through activities such as Fresno College Night, Reedley College Transfer Day, or university visits.
- Research educational opportunities in the STEM fields.