

STEM Ambassadors

Fall 2021

Interdisciplinary Studies (INTDS) 100 – STEM Projects

Section # 54368

Instructors: Dr. John Heathcote
Ms. Kylee Ford

Class Times: *Lecture:* F, 12:00-12:50 pm, PHY-70
Lab: 3 hours per week, arranged

Instructors / Contact Information / Office Hours:

Dr. John Heathcote (FEM-4A) (559) 494-3000 x3215 john.heathcote@reedleycollege.edu
Office Hours: MW 9:00-9:50 am
TThF 10:00-10:50 am
(feel free to stop by at other times as well)

Ms. Kylee Ford kylee.ford@reedleycollege.edu

Textbook: None **Prerequisites:** None

Grading:

Lab Hour Grade	30%
Ambassador Activities Grade	20%
Group Projects	25%
Individual Presentation	10%
Weekly Class Participation Grade	15%

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 (3×17 weeks = 51 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.

For your final lab hour total, your score for this portion of the grade will be taken as a percentage of the goal (51 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, SciFri, the VEX Robotics Training Clinics, 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 17 hours. (These hours also count for regular lab hours as well.)

Group Projects:

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

Individual Presentation:

As an individual, you will prepare a short demonstration for the class. You will give this demonstration and explain the science behind it. More details on this presentation will be given later.

Weekly Class Participation Grade:

The weekly class meeting for this class is very important for both the organization of the ambassador activities and for your development as ambassadors. Because of this, you will receive a participation score for each week's class. In order to receive full credit, you need to show up to class on time, be prepared, and participate in the day's activities.

Earned Percentage of Possible Points - Grade:

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

Attendance & Participation: Your attendance and participation are important. Attendance will be taken at the beginning of each class period. **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 the STEM shirt or another Reedley College shirt. 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. To improve fast communication during outreach events, we will also use the LINE app.

Register for the STEM 2021-2022 group on the LINE app: <https://line.me/R/ti/g/np66FyOK6b>
(or with the QR Code:



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 27	Last day to add a course
Drop Date:	Friday, October 8	Last day to drop this course
Holidays:	Monday, September 6	Labor Day
	Thursday, November 11	Veterans' Day
	Thursday-Friday, November 25-26	Thanksgiving Holiday

Course Description:

This is a course in preparing and leading STEM (Science, Technology, Engineering, and Math) outreach projects. Students will learn the principles behind outreach activities that are used with K-12 students to educate and excite them about STEM subjects and opportunities. Students will also lead these activities and work together to design new activities.

Course Objectives:

- Research scientific topics related to STEM demonstrations and activities.
- Prepare and lead outreach activities based on STEM topics for K-12 students.
- Host on-campus STEM-related educational events, such as “SciFri” science activities and Upward Bound Saturday Sessions.