

STEM 4890 - STEM Internship

Fall 2026 Syllabus, Section 02, CRN 41146,

Credit hours: 6

Instructor

Bharat Yelamanchi

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Public Instructor Information

Instructor Title:

Professor

Instructor Professional Qualifications:

PhD., Materials Science and Engineering, Youngstown State University, 2022

Master's, Industrial and Systems Engineering, Youngstown State University, 2015

Instructor Office Location:

Moser Hall, 2420

Instructor Office Phone:

330-941-3466

Course Description

4890. STEM Internship. Integrate theory and practice jointly supervised by working professional and STEM mentor for part-time assignment at approved employer. This academic experience encourages examination about and beyond daily professional related work, in order to broaden students' horizons intellectually, professionally and personally. Students meet with a STEM Career, Internship & Co-op professional staff member and either a Department Chair/ Program Coordinator/designated faculty internship advisor, submit assignment proposal for approval, and file weekly work logs for faculty mentor review. In order for the student to receive academic credit the student must also complete an academic component consisting of research and reflection in the form of a written paper and presentation. May be repeated up to two semesters. Prereq.: Junior or Senior standing, 3.00 GPA in STEM program, 2.75 GPA overall, and approval by STEM Career, Internship & Co-op professional staff in consultation with student's Department Chair/ Program Coordinator/designated faculty internship advisor. 1-6 s.h.

Course Readings

Group	Title	Author	ISBN
Optional	No Required Text		

This course allows a student to work in an industrial setting as an elective. As such, there are no required texts, but the student will likely be reading various documents as required for the position for learning and safety purposes.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	As this is an industrial work experience opportunity, there are no assigned readings from the professor. It is expected that the supervisor will provide appropriate readings as necessary for the position.	As this is an industrial work experience opportunity, there are no proposed topics from the professor. It is expected that the supervisor will cover necessary topics for the position.	Learning Objectives
8/31			Journal Entry #1
9/7			Journal Entry #2

9/14	Journal Entry #3
9/21	Journal Entry #4
9/28	Journal Entry #5
10/5	Journal Entry #6
10/12	Journal Entry #7 Employer Mid-Semester Evaluation
10/19	Journal Entry #8
10/26	Journal Entry #9
11/2	Journal Entry #10
11/9	Journal Entry #11
11/16	Journal Entry #12
11/23	Journal Entry #13
11/30	Journal Entry #13 Site Visit (In Person or Virtual)
12/7	Journal Entry #14 Journal Entry #15 Final Report Final Presentation Employer End of Semester Evaluation Student Evaluation Work Activity Log

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.