

SCED 490

SCED490 is a field-based experience in which WWU students teach science in an elementary classroom. The focus of this course is planning, teaching and assessing elementary science lessons with an authentic audience.

Prerequisites & Notes: SCED 480

Credits: 3

Grade Mode: Letter

Instructor:

Deborah L. Hanuscin

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hanuscd@wwu.edu

Meeting times/location:

The course is normally scheduled to meet Tues/Thur/Fri 12:30-2:20pm. This quarter, we will be meeting **ONLY** on Thursdays and Fridays via zoom.

- **THURSDAYS** will, in most cases, be devoted to mentoring elementary students in completing their Science & Engineering Fair projects
- **FRIDAYS** will be a traditional synchronous class session with our entire group

NOTE: [Credit hours \(Links to an external site.\)](#) are assigned to a class based on the amount and type of work expected from a typical student in class, with each hour in a course requiring at least two additional hours of study. You will need to visit the Canvas site often, and should expect to spend **up to 9 hours per week** in class activities including the synchronous Zoom meetings.

Course Goals & Objectives:

In this course, prospective teachers (you!) will:

1. Examine your beliefs in relation to a vision of effective science teaching and learning
 - Articulate a rationale for pedagogical decision-making
 - Reconcile discrepancies between your teaching beliefs and practice
2. Deepen your subject matter knowledge for teaching science
 - Present scientifically accurate ideas and representations
 - Develop and enact a coherent conceptual storyline
3. Develop an understanding of learners, learning, and issues of diversity and equity in science
 - Design and adapt instruction to meet the individual needs, interests, and ability of students

- Broaden awareness of common student approaches to learning and the assets they bring to the learning experience
 - 4. Develop and enact beginning repertoire of strategies for effective science instruction and assessment, including:
 - Eliciting and responding to student ideas
 - Engaging students intellectually with relevant phenomena
 - Motivating students to learn/meet learning targets
 - Supporting student sense-making
 - Supporting students in using evidence to critique claims
 - 5. Develop the tools and dispositions to study and learn from teaching
 - Reflect on and evaluate your teaching and student learning
 - Identify current and future areas for professional growth
 - Collaborate productively with colleagues
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Attendance & Participation

You are required to attend all synchronous sessions of the course. Given their interactive and participatory nature, it will be difficult for you to make up the learning that occurs in those sessions. In the event of illness or other extenuating circumstances that prevent you from attending, I ask that you contact me so that suitable arrangements can be made to prevent any negative impacts on others in your group and to ensure you do not fall behind.

Assignments

The major project for this course is the planning and implementation of a Virtual Science & Engineering Fair for students at Happy Valley Elementary School. Your learning will be evaluated through four related assignments/activities.

- Science Fair Committee Work
 - Learning Log
 - Mentoring Elementary Students
 - Evidence-based Self Evaluation
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Grading Scheme:

Assignments will be graded, and course grades determined as follows:

Grade	A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F/Z
4-point	4.0	3.9	3.7	3.3	3	2.7	2.3	2	1.7	1.3	1	0.7	0

10-point	10	9.6	9.3	8.9	8.6	8.3	7.9	7.6	7.3	6.9	6.6	6.3	6.3>
100-point	100	96	93	89	86	83	79	76	73	69	66	63	63>

Note: A grade of C- or lower in this course will require you to re-take SCED480. In addition, you will be asked to meet with your academic advisor for support and to develop an improvement plan.

Requesting P/NP grades : Students may designate a course as Pass/No Pass by submitting a request with the Registrar’s Office after registering for the course; they may change this designation by submitting the change to the Registrar’s Office at any time through the seventh week of a quarter; for extension program courses, pass/no pass grading designation may be elected up to the end of the seventh week for regular quarter-long courses, or prior to the third class meeting for shorter courses. Students may be advised to stay with a letter grade if required for accreditation, veteran status and benefits, or other purposes. For students to receive a P grade, at least 76% of all ungraded assignments must be complete and the average on graded assignments must be at least 76%. Additionally, attendance of synchronous sessions must be at least 76%.

Texts and required materials:

- Readings and supplemental materials will be provided in this Canvas site or made available via the web or Western Libraries.
- *This course is participating in Western Washington University’s Inclusive Access Initiative, which means that you will be able to access your course materials at the lowest possible price, directly inside of Canvas. All you need to do is simply click on any course material link. If you would like to opt-out of this program and not be billed for your use of your course materials, you can do so at any time before the add-drop deadline. If you have any questions, please feel free to reach out to support@willolabs.com. We will be using GoReact video analysis software in this course and SCED490. The **annual cost for students for the GoReact system will be \$57.78 plus tax**, and will be available for purchase through the AS Bookstore. This purchase will cover your use of GoReact in all courses you are taking that use GoReact (you do not need to purchase a separate license for each course).*

Syllabus Policies

This course will adhere to Western's [Syllabi Policies](#) for Academic Honesty, Accommodations, Ethical Conduct with WWU Network and Computing Resources, Equal Opportunity, Student Conduct Code, and Medical Excuse Policy.

Student Services

Western encourages students to seek assistance and support at the onset of an illness, difficulty, or crisis. As your instructor, I can be a first point of contact to help you find the campus-based resources you may need. Here are some of the resources WWU offers students:

- In the case of a **medical concern or question**, please contact the Health Center (360) 650-3400 or visit its website: <https://studenthealth.wvu.edu/>
- In the case of an **emotional or psychological concern or question**, please contact the Counseling Center: (360) 650-3400 or visit its website: <http://www.wvu.edu/counseling/>
- In the case of a **safety concern**, please contact the University Police: (360) 650-3555 or visit its website: <http://www.wvu.edu/ps/police/> ([Links to an external site.](#))
- In the case of a **family or personal crisis or emergency**, please contact the Office of Student Life (360) 650-3706 or its website: <https://wp.wvu.edu/officeofstudentlife/>