

EDU210 • Learning Sciences Lab

School of Education & Learning Sciences • Undergraduate • 6 ECTS

Overview

Apply learning-science evidence to design instruction: spaced practice, feedback loops, and motivation. Students run small studies, analyze outcomes, and write transparent reports that connect theory to concrete learning activities and materials.

LOGISTICS

Credits: 6 ECTS

Level: Undergraduate

School: School of Education & Learning Sciences

Prerequisites: None listed

Tags: learning-science, research-methods, feedback

Meeting time: Weekly lecture + research methods lab

Instruction mode: Evidence-based learning design with transparent reporting

LEARNING OUTCOMES

You will be able to:

- Design small learning studies with clear hypotheses and measures
- Collect and analyze qualitative/quantitative evidence responsibly
- Write reports that separate results from interpretation
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ASSESSMENT

Components

- Coursework: 60%
- Final project: 40%

Assessment is based on study designs, lab notes, and final reports. Clarity and transparency matter: you must include methods, measures, and limitations.

WEEKLY PLAN

Schedule

Week 1: Week 1

- Learning science basics: memory, practice, feedback

Week 2: Week 2

- Study design: hypotheses, measures, and bias

Week 3: Week 3

- Qualitative methods: interviews and coding

Week 4: Week 4

- Quantitative basics: descriptive stats and interpretation

Extended outline

- Learning science basics: memory, practice, feedback
- Study design: hypotheses, measures, and bias
- Qualitative methods: interviews and coding
- Quantitative basics: descriptive stats and interpretation
- Reporting: limitations and replication notes
- Final: a small study + transparent report

POLICIES & RESOURCES

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- Ethics: consent and minimization principles apply to all studies.
 - Transparency: report null results and failed hypotheses.
 - Academic integrity: cite instruments and frameworks used.

Suggested resources

- Study plan template (hypothesis, measure, protocol)
- Report rubric: methods, results, interpretation, limits
- Consent checklist for classroom studies