LEARNING SCIENCES (LRN_SCI)

LRN_SCI 201-0 Cognition and Action (1 Unit)  Perspectives on thinking and learning; how individuals reason and accomplish tasks, both on
their own and in interaction with each other and with their immediate
environments.

LRN_SCI 202-0 Culture, Language, & Identity (1 Unit)  Social and cultural
dimensions of learning, particularly how diverse linguistic and cultural
tools mediate forms of identity, learning experiences, and participation in
and transformation of social life.

LRN_SCI 214-0 Culture and Cognition (1 Unit)  Explore the cultural
ground of cognition. How do cultural environments structure and orient
our conceptual knowledge, and how do these cognitive processes
feedback into cultural systems? Key topics include conceptual
development, knowledge organization, causal reasoning, moral
psychology, and environmental psychology. Jointly, the topics are
integrated through a focus on social and ecological thought. We will
engage in cultural artifact analyses, field experiences, and research
inquiries. Combined with LOC 214-0; may not receive credit for both
courses.

LRN_SCI 224-0 Holocaust Education Design (1 Unit)

LRN_SCI 251-0 Special Topics in Learning Sciences (1 Unit)

LRN_SCI 301-0 Design of Learning Environments (1 Unit)  Conceiving,
building, and testing products and services to help people learn.
Topics include the human-centered design process, principles for
designing learning environments, and agile project management and
communication techniques.

LRN_SCI 301-0 Social, Cultural, and Linguistic Contexts of Education (1
Unit)  This course focuses on the social and contextual influences of
education, from a learning, teaching, research, and policy perspective.
We will examine the role or race, ethnicity, class, gender, sexuality, and
identity in the ways individuals and groups influence and are influenced
by our education system.

LRN_SCI 308-0 Redesigning Everyday Organizations (1 Unit)  Concepts
and methods for understanding and studying cognition and learning and
putting these concepts and methods to use in a design/change project.
Combined with LOC 308-0; may not receive credit for both courses.

LRN_SCI 309-0 Inclusive Making (1 Unit)  The goals of this course
are to push students to 1) critically explore Making as a practice that
promotes democratization, 2) develop interfaces that allow a broader
population of students to participate in digital fabrication and 3)
design artifacts that positively impact accessibility and inclusivity. The
course will include guest speakers, laboratory portions and a projects
that encourages students to develop publishable scholarship and/or
functional prototypes, as they work in interdisciplinary teams. This
is a hands-on project course. All students will design and implement
interactive technologies. For this reason you will be expected to do
computer programming and digital fabrication. However, all projects can
be completed in teams. Hence, it is not essential that all students come
with prior knowledge in computer programming and digital fabrication.
Additionally, a portion of class and office hours will be devoted to helping
students gain familiarity in basic digital fabrication and computer
programming.

LRN_SCI 313-0 Tangible Interaction Design and Learning (1 Unit)
Explores the use of tangible interaction to create innovative learning
experiences, including distributed cognition, embodied interaction,
cultural forms, and design frameworks. Combined with COMP_SCI 313-0;
may not receive credit for both courses. Prerequisite: COMP_SCI 110-0.

LRN_SCI 326-0 Design of Technological Tools for Thinking and Learning
(1 Unit)  Constructionist approach to design. Participants discuss
learning design literature, critique software, and design and build
computer-based learning environments (CBLE).

LRN_SCI 338-0 Learning and Teaching with Technology (1 Unit)  Theory
and practice of designing school environments that integrate new
technologies and media. Combined with TEACH_ED 338-0; may not
receive credit for both courses.

LRN_SCI 351-0 Topics in Learning Sciences (1 Unit)

LRN_SCI 351-0 Designing and Constructing Models with Multi-agent
Languages (1 Unit)  Exploration and analysis of multi-agent models,
which simulate "emergent" scientific phenomena in a wide variety of
content domains. Combined with COMP_SCI 372-0; may not receive
credit for both courses.