LEARNING SCIENCES MAJOR

Students must also complete the Undergraduate Registration Requirement (https://catalogs.northwestern.edu/undergraduate/requirements-policies/undergraduate-registration-requirement/) and the degree requirements of their home school.

Concentration Program—16 units*

* 8 of the 16 units need to be at the 300-level

Course Required Courses (9 units)
LRN_SCI 201-0 Cognition and Action
LRN_SCI 202-0 Culture, Language, & Identity
LRN_SCI 301-0 Design of Learning Environments

1 course for the Cognition cluster from:
COG_SCI 207-0 Introduction to Cognitive Modeling
COG_SCI 211-0 Learning, Representation & Reasoning
PSYCH 228-0 Cognitive Psychology

1 course for the Language and Culture cluster from:
ANTHRO 215-0 The Study of Culture through Language
LING 220-0 Language and Society
LING 221-0 Language and Prejudice
LING 222-0 Language, Politics, and Identity
LING 223-0 Language and Gender

1 course for the Learning in Schools cluster from:
LRN_SCI 302-0 Social Contexts of Education
LRN_SCI 338-0 Learning and Teaching with Technology
LRN_SCI 351-0 Topics in Learning Sciences (Schooling in America)
SESP 320-0 Race and Education
SOC_POL 351-0 Special Topics in Social Policy (Urban Education Policy and Practice)
TEACH_ED 302-0 Social Contexts of Education
TEACH_ED 351-0 Special Topics in Teacher Education (Schooling in America)

1 course for the Out of School Learning cluster from:
LRN_SCI 214-0 or LOC 214-BR Culture and Cognition
LOC 306-0 Studies in Organizational Change
LOC 351-0 Topics in Learning and Organizational Change (Cognition in Contexts)
LRN_SCI/LOC 308-0 Redesigning Everyday Organizations
SESP 204-0 Designing for Social Change
SESP 251-0 Community Based Research Methods
SESP 323-0 Trauma and Atrocity: Holocaust Memory, Memorials and Museums
SESP 324-0 Pedagogies for History and Injustice: Holocaust Education Design
SESP 351-0 Special Topics (Computing, Ethics, and Society)

1 course for the Design of Learning Environments cluster from:
LRN_SCI 307-0 Designing Interactive Media and Technology for Learning
LRN_SCI 309-0 Inclusive Making
LRN_SCI 313-0 Tangible Interaction Design and Learning
LRN_SCI 351-0 Topics in Learning Sciences (Sports Wearables and Learning or Design of Sociotechnical Systems)
LRN_SCI 372-0 Designing and Constructing Models with Multi-agent Languages

Overlay Requirements*

* Overlay requirements are fulfilled by courses taken for the concentration

1 additional course in student's specialization

Concentration Extension Course (7 units)

Must be selected from an approved list of courses in learning sciences, other SESP concentrations, and disciplines such as anthropology, communication studies, computer science, design, linguistics, and psychology. Must include at least 3 courses at the 300 level. Up to 3 units of SESP 390-0 Research Apprenticeship or SESP 399-0 Independent Study and 3 units of SESP 398-0 Honors Thesis may be counted toward this requirement.

SESP Core (8 units)

Course Title
SESP 200-0 Understanding Knowledge

Human Development—1 unit
SESP 201-0 Human Development: Childhood and Adolescence
or SESP 203-0 Human Development: Adulthood and Aging
or HDC 310-0 The Art and Science of Aging

Methodologies —2 units
SESP 210-0 Introduction to Statistics and Research Methodology
SESP 272-0 Field Research Methods

Experiential Learning—4 units
SESP 384-0 Practicum in Human Development - Washington, D.C.
or SESP 389-0 Practicum in Human Development - San Francisco
or SESP 392-0 Experiential Learning: Practicum

Practicum course must be in concentration field. This 4-unit course may be taken either for 1 quarter during junior year or for nine weeks during the Summer Session before or after junior year; no fifth unit may be taken concurrently without special permission. At least 2 quarters before registering for the course, students must consult the SESP practicum director regarding procedures and site-placement application materials. For Summer Session practicums, consultation should be scheduled at least 3 quarters in advance.

Overlay Requirements*

* Overlay requirements are fulfilled by courses taken for the concentration

Course Title
Global Engagement

Heterogeneities, Systems, and Inequalities
1 course counted towards the concentration: HDC 305-0, HDC 351-0 (Health Program Planning), LOC 214-0, LOC 214-BR, LOC 351-0 (Identities, Intersection, and Organizations), LRN_SCI 214-0, LRN_SCI 309-0, SESP 251-0, SESP 317-0, SESP 320-0, SESP 323-0, SESP 324-0, SESP 325-0, SESP 351-0 (Computing, Ethics, and Society), SESP 313-0, SESP 331-0, SESP 333-0, SESP 351-0 (Intersectional Identities and Public Policy or Urban Education Policy and Practice)
TEACH_ED 302-0, TEACH_ED 351-0 (Cognition and Culture in Teaching and Learning), TEACH_ED 351-0 (Schooling in America)

Methods in Context
1 course counted towards the concentration: HDC 351-0 (Adolescent Stress or Mapping and Spatial Analysis for Social Issues), LOC 308-0, LOC 311-0, LOC 351-0 (Cognition in Contexts), LRN_SCI 301-0, LRN_SCI 309-0, LRN_SCI 313-0, LRN_SCI 351-0, LRN_SCI 372-0, SESP 204-0, SESP 251-0 (Demystifying Quantitative Data), SESP 303-0, SESP 310-0, SESP 323-0, SESP 324-0, SESP 351-0 (The Life Story Interview), SOC_POL 330-0, SOC_POL 331-0, SOC_POL 332-0, SOC_POL 333-0, SOC_POL 351-0

Languages

Designing and Constructing Models with Multi-agent Languages

Over Week Learning (Sports Wearables and Tangible Interaction Design and Learning)

Topics in Learning Sciences (Schooling in America)

Social Contexts of Education

Policy and Practice

Special Topics in Social Policy (Urban Education Policy and Practice)

Human Development: Childhood and Adolescence

Human Development: Adulthood and Aging

The Art and Science of Aging

Introduction to Statistics and Research Methodology

Field Research Methods

Practicum in Human Development - Washington, D.C.
Practicum in Human Development - San Francisco
Experiential Learning: Practicum

Cognition and Action

Culture, Language, & Identity

Design of Learning Environments
**Distribution Requirements (10 units)**
- 2 natural sciences courses
- 2 formal studies courses (mathematics, logic, etc.)
- 2 historical studies courses
- 2 ethics and values courses (philosophy, religion, etc.)
- 2 literature and fine arts courses

Selected courses from Weinberg College and professional schools across the University may be used to fulfill distribution requirements with the consent of the student’s adviser and the SESP assistant dean for student affairs.

**Electives (8 units)**
Courses from any school across the University may be used to fulfill elective requirements. Students are encouraged to discuss their elective plans with their advisers; they may be able to pursue a second major or a minor using elective credits.