

# 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	Title
<b>Required Courses (9 units)</b>	
LRN_SCI 201-0 or LRN_SCI 251-0	Cognition and Action Special Topics in Learning Sciences <i>Special Topic must be Intro to Learning Sciences</i>
LRN_SCI 202-0	Culture, Language, & Identity
LRN_SCI 301-0	Design of Learning Environments
1 course for the Cognition cluster from:	
COG_SCI 110-0	Introduction to Cognitive Science
COG_SCI 207-0	Introduction to Cognitive Modeling
COG_SCI 211-0	Learning, Representation & Reasoning
HDC/LOC 347-0	Mapping and Spatial Analysis for Social Issues
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 <small>Crosslisted with SLAVIC 222</small>
LING 223-0	Language & Gender <small>Crosslisted with GNDR_ST 234</small>
LRN_SCI 351-0	Topics in Learning Sciences (Multimodal Storytelling on Migration for Learning Within and Across Communities)
SESP 351-0	Special Topics (Anthropology of Literacy)
TEACH_ED 309-0	Designing and Supporting Discourse-Rich Environments for Learning
1 course for the Learning in Schools cluster from:	
LRN_SCI/TEACH_ED 302-0	Social, Cultural, and Linguistic Contexts of Education
LRN_SCI 338-0	Learning and Teaching with Technology
LRN_SCI 351-0	Topics in Learning Sciences (Identity, Power, and the Historical Imaginary Across Social Contexts)
LRN_SCI/TEACH_ED 351-0	Topics in Learning Sciences (Transformative Computer Science Education)
TEACH_ED 301-0	Schooling in America
TEACH_ED 309-0	Designing and Supporting Discourse-Rich Environments for Learning
1 course for the Out of School Learning cluster from:	
LRN_SCI/LOC 214-0 or LOC 214-BR	Culture and Cognition Culture and Cognition: SESP Leadership Institute
LRN_SCI 224-0	Holocaust Education Design
LRN_SCI 251-0	Special Topics in Learning Sciences (Intro to Learning Sciences)
LRN_SCI/LOC 308-0	Redesigning Everyday Organizations
LRN_SCI 351-0	Topics in Learning Sciences (Computing, Ethics, and Society)

LRN_SCI 351-0	Topics in Learning Sciences (Text Mining for Education, Organizations and Social Science Research)
LOC 351-0	Topics in Learning and Organizational Change (Cognition in Contexts)
SESP 251-0	Special Topics (Finding Your Path: Future Possibilities and Social Change)
SESP 323-0	Trauma and Atrocity: Holocaust Memory, Memorial and Museums
SESP 360-0	Magic Monsters & the Holocaust
TEACH_ED 329-0	Cognition and Culture in Teaching and Learning
1 course for the Design of Learning Environments cluster from:	
SESP 260-0	Community Based Research Methodologies: Educational Justice
LRN_SCI 224-0	Holocaust Education Design
LRN_SCI 309-0	Inclusive Making
LRN_SCI 313-0	Tangible Interaction Design and Learning
LRN_SCI 326-0	Design of Technological Tools for Thinking and Learning
LRN_SCI 351-0	Topics in Learning Sciences (Sports, Technology and Learning or Transformative Computer Science Education)
LRN_SCI 372-0	Designing and Constructing Models with Multi-agent Languages
TEACH_ED 309-0	Designing and Supporting Discourse-Rich Environments for Learning
TEACH_ED 336-0	Instructional Design & Assessment
SESP 195-1	Civic Engagement 1- Participatory Policymaking
SESP 195-2	Civic Engagement 2: Participatory Budgeting
SESP 195-3	Civic Engagement 3: Organizing, Gathering & Policy implementation

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
<b>Seminar—1 unit</b>	
SESP 200-0	Understanding Knowledge
<b>Human Development—1 unit</b>	
SESP 201-0 or PSYCH 244-0	Human Development: Childhood and Adolescence <sup>1</sup> Developmental Psychology
OR	
SESP 203-0	Human Development: Adulthood and Aging
OR	
HDC 310-0	The Art and Science of Aging
OR	
SESP 251-0	Special Topics (Coming of Age and Growing Old in the 21st Century)
OR	
HDC 351-0	Special Topics in Human Development in Context (Myths and Facts of Adolescence)
<b>Methodologies —2 units</b>	
SESP 210-0	Introduction to Statistics and Research Methodology

or STAT 202-0	Introduction to Statistics and Data Science
or STAT 210-0	Introduction to Probability and Statistics
or PSYCH 201-0	Statistical Methods in Psychology
or SOCIOL 303-0	Analysis and Interpretation of Social Data
SESP 272-0	Field Research Methods
<b>Experiential Learning—4 units</b> <sup>2</sup>	
SESP 392-0	Experiential Learning: Practicum
or SESP 392-SA	Experiential Learning: Practicum Study Abroad

<sup>1</sup> PSYCH 110-0 Introduction to Psychology is a prerequisite for PSYCH 244-0 and PSYCH 201-0.

<sup>2</sup> 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

1 quarter of study abroad or 3 quarters of foreign language or equivalent.

#### Heterogeneities, Systems, and Inequalities

1 course counted towards the concentration: HDC 305-0, LOC 214-0, LOC 214-BR, LOC 351-0 (Identities, Intersection, and Organizations or Global Organizations & Leadership), LRN\_SCI 202-0, LRN\_SCI 214-0, LRN\_SCI 224, LRN\_SCI 302-0, LRN\_SCI 309-0, LRN\_SCI 351-0 (Identity, Power, and the Historical Imaginary Across Social Contexts), SESP 195-0, SESP 251-0 (Finding Your Path: Future Possibilities and Social Change), SESP 260-0, SESP 323-0, LRN\_SCI 351-0 (Computing, Ethics, and Society), SESP 351-0 (Anthropology of Literacy or Anthropology of Education), SESP 360-0, SOC\_POL 313-0, SOC\_POL 315-0, SOC\_POL 331-0, SOC\_POL 333-0, SOC\_POL 351-0 (Intersectionality, Measurement, and Public Policy or Religion and Policy or Social Side of College), TEACH\_ED 301-0, TEACH\_ED 302-0, TEACH\_ED 329-0

#### Methods in Context

1 course counted towards the concentration: HDC 330-0, HDC 347-0, LOC 308-0, LOC 311-0, LOC 313-0, LOC 347-0, LRN\_SCI 224-0, LRN\_SCI 301-0, LRN\_SCI 309-0, LRN\_SCI 313-0, LRN\_SCI 326-0, LRN\_SCI 351-0 (Sports, Technology and Learning or Text Mining for Education, Organizations, and Social Science Research or Transforming Computer Science Education or Indigenous Methods in Research), LRN\_SCI 372-0, SESP 251-0 (Intro to Social Science Research), SESP 260-0, SESP 310-0, SESP 323-0, SESP 360-0, SOC\_POL 330-0, SOC\_POL 331-0, SOC\_POL 332-0, SOC\_POL 333-0, SOC\_POL 334-0, SOC\_POL 351-0 (Social Side of College or Intersectionality, Measurement, and Public Policy)

## Foundational Disciplines (10 units)

- 2 natural sciences (NS) courses
- 2 empirical and deductive reasoning (EDR) courses
- 2 historical studies (HS) courses
- 2 ethical and evaluative thinking (EET) courses
- 2 literature and arts (LA) 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.