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

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>LRN_SCI 201-0</td>
<td>Cognition and Action</td>
</tr>
<tr>
<td>LRN_SCI 202-0</td>
<td>Culture, Language, &amp; Identity</td>
</tr>
<tr>
<td>LRN_SCI 301-0</td>
<td>Design of Learning Environments</td>
</tr>
</tbody>
</table>

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)

1 course for the Out of School Learning cluster from:
- LRN_SCI 214-0 or LOC 214-8R: Culture and Cognition
- LRN_SCI/LOC 308-0: Redesigning Everyday Organizations
- SESP 251-0: Community Based Research Methods
- SESP 303-0: Designing for Social Change
- 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:
- SESP 303-0: Designing for Social Change
- 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

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)

<table>
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<tr>
<td>SESP 200-0: Seminar</td>
<td>Understanding Knowledge</td>
</tr>
<tr>
<td>SESP 201-0 or SESP 203-0 or HDC 310-0: Human Development</td>
<td>Human Development: Childhood and Adolescence</td>
</tr>
<tr>
<td>SESP 210-0: Methodology</td>
<td>Introduction to Statistics and Research Methodology</td>
</tr>
<tr>
<td>SESP 272-0: Experiential Learning</td>
<td>Field Research Methods</td>
</tr>
</tbody>
</table>

Experiential Learning—4 units

1 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

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<tr>
<td>SESP 384-0: Global Engagement</td>
<td>Practicum in Human Development - Washington, D.C.</td>
</tr>
<tr>
<td>or SESP 389-0 or SESP 392-0: Experiential Learning</td>
<td>Practicum in Human Development - San Francisco</td>
</tr>
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Overlay Requirements (7 units)

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<td>Introduction to Statistics and Research Methodology</td>
</tr>
<tr>
<td>SESP 351-0: Special Topics (Computing, Ethics, and Society)</td>
<td>Field Research Methods</td>
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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.