SECONDARY TEACHING
sesp.northwestern.edu/ugrad/secondary-teaching

SESP’s interdisciplinary secondary teaching concentration combines subject-area courses in a chosen field from Weinberg College—biological sciences, chemistry, economics, English, history, mathematics, physics, political science, or Spanish—with courses in child and adolescent development, education theory and methods, and urban education. The program leads to an Illinois Professional Educator license as well as a bachelor of science and social policy degree. The degree is 42 units.

Similar to the other SESP concentrations, which have a four unit practicum in the junior year, secondary teaching students must complete a one-quarter student teaching internship in the senior year while enrolled in TEACH_ED 388-0 Student Teaching: Humanities or TEACH_ED 389-0 Student Teaching Seminar: Math/Science.

Weinberg College students who wish to pursue secondary teaching licensure must apply to the program by the fall of junior year and complete the requirements of the secondary teaching concentration. They also must complete the degree requirements of Weinberg College.

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.

Total requirements—42 units
Distribution requirements—11 units
Professional core—13 units
Teaching subject–area requirements—varies
Electives—7 or fewer as needed to complete the 42-unit degree requirement

Distribution Requirements (11 units)

- 1 oral communication course
- 2 natural sciences courses
- 2 formal studies courses (mathematics, logic, etc.)
- 2 historical studies courses
- 2 ethics and values courses (TEACH_ED 302-0 Social Contexts of Education will count as 1 of these)
- 2 literature and fine arts courses

Selected courses from Weinberg College and professional schools across the University fulfill distribution requirements.

Professional Core (12 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>SESP 201-0</td>
<td>Human Development: Childhood and Adolescence ¹</td>
</tr>
<tr>
<td>TEACH_ED 302-0</td>
<td>Social Contexts of Education</td>
</tr>
<tr>
<td>TEACH_ED 310-0</td>
<td>Foundations of Learning in a New Language</td>
</tr>
<tr>
<td>TEACH_ED 322-0</td>
<td>Content Area Reading and Writing</td>
</tr>
<tr>
<td>TEACH_ED 327-0</td>
<td>Educating Exceptional Children</td>
</tr>
</tbody>
</table>

1 methods and techniques course chosen from:

- TEACH_ED 355-0 Methods & Techniques: World Languages
- TEACH_ED 356-0 Methods & Techniques: English

Teaching Subject–Area Requirements (12–20.72 units)

Specific teaching subject–area courses prepare students to meet the requirements of the Illinois State Board of Education. Teaching subject–area requirements may differ from those of a departmental major, and departmental course offerings change frequently. Secondary teaching candidates must meet regularly with the secondary teaching adviser to ensure that requirements are met. In the event that courses listed here are no longer offered by the departments, suitable replacements will be found. Students are also responsible for any prerequisites. The unit totals below are approximate minimums. Exact unit totals depend on options chosen.

Biological and Physical Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOL_SCI 201-0</td>
<td>Molecular Biology</td>
</tr>
<tr>
<td>ASTRON 101-0</td>
<td>Modern Cosmology</td>
</tr>
<tr>
<td>&amp; ASTRON 120-0</td>
<td>Highlights of Astronomy</td>
</tr>
<tr>
<td>CHEM 110-0</td>
<td>Quantitative Problem Solving in Chemistry</td>
</tr>
<tr>
<td>or CHEM 171-0</td>
<td>Advanced General Inorganic Chemistry Laboratory</td>
</tr>
<tr>
<td>&amp; CHEM 181-0</td>
<td>Advanced General Inorganic Chemistry Laboratory</td>
</tr>
<tr>
<td>EARTH 201-0</td>
<td>Earth Systems Revealed</td>
</tr>
<tr>
<td>or ENVR_SCI 201-0</td>
<td>Earth: A Habitable Planet</td>
</tr>
</tbody>
</table>

8 core science courses plus labs:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>PHYSICS 130-1</td>
<td>College Physics</td>
</tr>
<tr>
<td>&amp; PHYSICS 130-2</td>
<td>and College Physics</td>
</tr>
<tr>
<td>&amp; PHYSICS 130-3</td>
<td>and College Physics</td>
</tr>
<tr>
<td>&amp; PHYSICS 136-1</td>
<td>and General Physics Laboratory</td>
</tr>
<tr>
<td>&amp; PHYSICS 136-2</td>
<td>and General Physics Laboratory</td>
</tr>
<tr>
<td>&amp; PHYSICS 136-3</td>
<td>and General Physics Laboratory</td>
</tr>
</tbody>
</table>
2  Secondary Teaching

or PHYSICS 135-1  General Physics
& PHYSICS 135-2  and General Physics
& PHYSICS 135-3  and General Physics
& PHYSICS 136-1  and General Physics Laboratory
& PHYSICS 136-2  and General Physics Laboratory
& PHYSICS 136-3  and General Physics Laboratory

4 additional chemistry courses and required labs:
CHEM 131-0  General Chemistry 1
& CHEM 141-0  and General Chemistry Laboratory 1
or CHEM 172-0  Advanced General Physical Chemistry
& CHEM 182-0  and Advanced General Physical Chemistry Laboratory
CHEM 132-0  General Chemistry 2
& CHEM 142-0  and General Chemistry Laboratory 2
CHEM 212-1  Organic Chemistry
CHEM 212-2  Organic Chemistry

5 additional biological sciences courses plus 3 labs:
BIOL_SCI 202-0  Cell Biology
BIOL_SCI 203-0  Genetics and Evolution
BIOL_SCI 301-0  Principles of Biochemistry
1 chosen from:
BIOL_SCI 341-0  Population Genetics
BIOL_SCI 342-0  Evolutionary Processes
BIOL_SCI 392-0  Developmental Genetics Laboratory
1 additional 300-level biological sciences course (SESP students)
3 labs:
BIOL_SCI 232-0  Molecular and Cellular Processes Laboratory
BIOL_SCI 233-0  Genetics and Molecular Processes Laboratory
BIOL_SCI 234-0  Investigative Laboratory

For Weinberg College students: additional courses as needed to meet requirements for the major.

Chemistry (20.72 units)
Course  Title

9 core science courses plus labs:
ASTRON 101-0  Modern Cosmology
or ASTRON 120-0  Highlights of Astronomy
BIOL_SCI 164-0  Basic Genetics and Evolution
or BIOL_SCI 202-0  Cell Biology
CHEM 110-0  Quantitative Problem Solving in Chemistry
or CHEM 171-0  Advanced General Inorganic Chemistry
& CHEM 181-0  and Advanced General Inorganic Chemistry Laboratory
EARTH 201-0  Earth Systems Revealed
ENVR_SCI 201-0  Earth: A Habitable Planet
ENVR_SCI 202-0  The Health of the Biosphere
PHYSICS 135-1  General Physics
& PHYSICS 135-2  and General Physics
& PHYSICS 135-3  and General Physics
& PHYSICS 136-1  and General Physics Laboratory
& PHYSICS 136-2  and General Physics Laboratory
& PHYSICS 136-3  and General Physics Laboratory

9 additional chemistry courses and required labs:
CHEM 131-0  General Chemistry 1
& CHEM 141-0  and General Chemistry Laboratory 1
or CHEM 172-0  Advanced General Physical Chemistry
& CHEM 182-0  and Advanced General Physical Chemistry Laboratory
CHEM 132-0  General Chemistry 2
& CHEM 142-0  and General Chemistry Laboratory 2
CHEM 220-0  Introductory Instrumental Analysis

Chemistry (20.72 units)
Course  Title

2 additional 300-level chemistry courses
CHEM 212-1  Organic Chemistry
CHEM 212-2  Organic Chemistry
CHEM 212-3  Organic Chemistry
CHEM 393-0  Green Chemistry

Physical (14.36 units)
Course  Title

7 core science courses plus labs:
ASTRON 101-0  Modern Cosmology
or ASTRON 120-0  Highlights of Astronomy
BIOL_SCI 103-0  Diversity of Life
CHEM 110-0  Quantitative Problem Solving in Chemistry
or CHEM 171-0  Advanced General Inorganic Chemistry
& CHEM 181-0  and Advanced General Inorganic Chemistry Laboratory
EARTH 201-0  Earth Systems Revealed
PHYSICS 135-1  General Physics
& PHYSICS 135-2  and General Physics
& PHYSICS 135-3  and General Physics
& PHYSICS 136-1  and General Physics Laboratory
& PHYSICS 136-2  and General Physics Laboratory
& PHYSICS 136-3  and General Physics Laboratory

6 additional physics courses:
PHYSICS 239-0  Foundations of Modern Physics
PHYSICS 330-1  Classical Mech
PHYSICS 332-0  Statistical Mechanics
PHYSICS 333-1  Advanced Electricity & Magnetism

2 additional physics courses including at least 1 at the 300 level

English

English (13 units)
Course  Title

9 additional courses, including at least 4 at the 300 level:
At least 3 world literature courses chosen from but not limited to:
COMP_LIT 201-0  Reading World Literature
COMP_LIT 202-0  Interpreting Culture
COMP_LIT 270-0  Literatures in Translation
COMP_LIT 301-0  Studies in World Literature
COMP_LIT 303-0  Movements and Periods
ENGLISH 270-0  Studies in Postcolonial Literature
ENGLISH 271-0  Studies in African Literature
ENGLISH 272-0  Studies in Native American and Indigenous Literatures

At least 3 literature courses representing different genders, ethnicities and social classes chosen from but not limited to:
ENGLISH 274-0  Introduction to Native American and Indigenous Literatures
ENGLISH 275-0  Introduction to Asian American Literature
ENGLISH 277-0  Introduction to Latina and Latino Literature
ENGLISH 278-0  Studies in African American Literature
ENGLISH 279-0  Topics in Native American and Indigenous Literatures
ENGLISH 375-0  Topics in Asian American Literature
ENGLISH 377-0  Topics in Latina and Latino Literature

Secondary Teaching
Spanish (13 units)

Course                        Title

SPANISH 197-0  Language in Context: Latinx, Language and Culture

3 Latin American/Latinx culture and civilization courses including film, art, and history, from:

SPANISH 197-0  Language in Context: Latinx, Language and Culture

Spanish (13 units)

Course                        Title

SPANISH 361-0  Latin America: Studies in Culture and Society
SPANISH 362-0  Citizenship and Urban Violence in Latin America
SPANISH 364-0  Cultural Borders/Border Cultures
SPANISH 380-0  Topics in Film: The Silver Screen in Latin America and/or Spain
SPANISH 395-0  Topics in Latin American, Latina and Latino, and/or Iberian Cultures

Choose 1 from the following:

SPANISH 280-0  Introduction to Spanish Linguistics
SPANISH 281-0  Spanish Phonetics and Phonology
SPANISH 302-0  Advanced Grammar

Mathematics

Mathematics (12 units)

Course                        Title

12 courses (total number of courses may depend on the calculus sequence the student enrolls in) with at least 5 at the 300 level. No more than two AP credits may be counted toward the 12.

Foundation calculus courses:

MATH 218-1  Single-Variable Calculus with Precalculus
& MATH 218-2  and Single-Variable Calculus with Precalculus
& MATH 218-3  and Single-Variable Calculus with Precalculus
or MATH 220-1  Single-Variable Differential Calculus
&MATH 220-2  and Single-Variable Integral Calculus
MATH 226-0  Sequences and Series
MATH 230-1  Multivariable Differential Calculus
MATH 230-2  Multivariable Integral Calculus

Additional required courses:

MATH 240-0  Linear Algebra
MATH 306-0  Combinatorics & Discrete Mathematics

1 probability and statistics course chosen from:

MATH 310-1  Probability and Stochastic Processes
SESP 210-0  Introduction to Statistics and Research Methodology
STAT 210-0  Introductory Statistics for the Social Sciences

1 geometry course chosen from:

MATH 340-0  Geometry
TEACH_ED 373-0  Topics in High School Math

Additional courses as needed to reach minimum 12 units

Social Sciences

History (14 units)

Course                        Title

No more than 1 AP credit may be counted towards history course requirements.

HISTORY 250-1  Global History: Early Modern to Modern Transition & HISTORY 250-2  and Global History: The Modern World
or HISTORY 201-1  Europe in the Medieval and Early Modern World & HISTORY 201-2  and Europe in the Modern World
HISTORY 210-1  History of the United States, Precolonial to the Civil War & HISTORY 210-2  and History of the United States, Reconstruction to the Present
HISTORY 393-0  Approaches to History

5 additional courses, including at least 4 at the 300 level:

2 non-Western civilization courses such as:
### Economics (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ECON 201-0</td>
<td>Introduction to Macroeconomics</td>
</tr>
<tr>
<td>ECON 202-0</td>
<td>Introduction to Microeconomics</td>
</tr>
<tr>
<td>ECON 281-0</td>
<td>Introduction to Applied Econometrics</td>
</tr>
<tr>
<td>ECON 310-1</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>ECON 310-2</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>or ECON 311-0</td>
<td>Macroeconomics</td>
</tr>
</tbody>
</table>

3 additional economics courses at the 300 level

6 history courses including four in U.S. history

1 related core chosen from the list:

- POLL_SCI 220-0 American Government and Politics
- POLL_SCI 240-0 Introduction to International Relations
- POLL_SCI 250-0 Introduction to Comparative Politics
- GEOG 313-0 North America

### Political Science (15 units)

8 political science courses of which 5 must be at the 300 level:

Choose at least 2 from:

- POLL_SCI 201-0 Introduction to Political Theory
- POLL_SCI 220-0 American Government and Politics
- POLL_SCI 240-0 Introduction to International Relations
- POLL_SCI 250-0 Introduction to Comparative Politics
- POLL_SCI 311-0 Urban Politics

1 course in methodology chosen from:

- POLL_SCI 210-0 Introduction to Empirical Methods in Political Science
- POLL_SCI 310-0 Methods of Political Inference
- POLL_SCI 311-0 Logics of Political Inquiry
- POLL_SCI 312-0 Statistical Research Methods

5 additional political science courses with at least two focusing on a region outside of North America

6 history courses with four in U.S. history

1 related core course chosen from the following:

- ECON 201-0 Introduction to Macroeconomics
- ECON 202-0 Introduction to Microeconomics
- GEOG 240-0 Economic Geography
- GEOG 313-0 North America

### Electives (varies)

Additional units of elective coursework must be taken to complete the 42-unit degree requirement. Students are encouraged to discuss their elective plans with the teacher certification manager.

### Teacher Preparation Program

Students who wish to be licensed as teachers must apply to the SESP Teacher Preparation Program. This program is approved by the Illinois State Teacher Certification Board. Completion of the courses alone does not result in licensure, nor is licensure required for completion of the SESP degree.

#### Application and Admission

Students apply to the Teacher Preparation Program by the fall of the junior year. To be admitted, they must have a minimum overall GPA of 2.5 and a minimum GPA of 3.0 in a humanities teaching subject area course or meet an annually calculated and determined GPA in math or science subject areas. Students must be eligible for entrance to the program no later than the end of fall quarter of the junior year.

#### Clinical Experience

Students in the Teacher Preparation Program complete two clinical experiences: a 100-hour school practicum (typically during fall of the senior year); and student teaching (typically during winter of the senior year).

To be eligible for the 100-hour practicum, students must have met the GPA requirements for and been admitted to the Teacher Preparation Program and be on track to have completed a minimum of 9 courses in the teaching subject area by the end of the practicum term in order to be placed. Those meeting these requirements will be placed with a department or teacher mentor at a local school.

Clinical experiences gained at the site are central to the discussion of methods and theories in the practicum seminar (TEACH_ED 378-0 Theory and Practice of Teaching: Secondary Humanities or TEACH_ED 379-0 Theory and Practice of Teaching: Secondary Math/Science) and
methodology courses (TEACH_ED 355-0 Methods & Techniques: World Languages—TEACH_ED 359-0 Methods & Techniques: Social Science).

To be eligible for student teaching, students must have successfully completed the applicable TEACH_ED 355-0 Methods & Techniques: World Languages—TEACH_ED 359-0 Methods & Techniques: Social Science course(s) as well as TEACH_ED 378-0 Theory and Practice of Teaching: Secondary Humanities or TEACH_ED 379-0 Theory and Practice of Teaching: Secondary Math/Science, earned a passing score on the applicable ICTS Content-Area Test, fulfilled minimum GPA requirements for student teaching, completed 9 teaching subject–area courses and have been recommended for continuation to student teaching. Most school districts also require a criminal background check.

Student teaching involves full-time placement in a local school for the entire quarter. Teacher candidates attend an evening seminar (TEACH_ED 388-0 Student Teaching: Humanities or TEACH_ED 389-0 Student Teaching Seminar: Math/Science). The internship and seminar together earn 4 units. No other courses are taken concurrently. Teacher candidates are evaluated by their school mentor, a Northwestern supervisor, and the seminar instructor.

Other Licensure Requirements

In addition to successful completion of student teaching, all teacher candidates must successfully complete the state-mandated performance assessment, edTPA.

Foreign language teacher candidates other than those in Latin are required to complete the Oral Proficiency Interview of the American Council on the Teaching of Foreign Languages with a rating of upper-intermediate-high or better.

Recommendation for Licensure

Students are recommended for licensure when they successfully complete degree requirements, earn a rating of recommendation for licensure for student teaching and pass all outside tests as noted above. Although legal requirements for licensure vary from state to state, the SESP Teacher Preparation Program is flexible enough to permit students who plan carefully to complete provisional requirements for most states. As it is easier to obtain a teaching license in another state through reciprocity than through independent certification, all students who complete the program are encouraged to apply for an Illinois license before leaving the state.

Students should apply for the license immediately upon graduation. Teacher Preparation Program graduates who are recommended but do not apply for certification upon graduation may not be eligible for certification at a later date due to changes in state requirements.

The Illinois School Code has provided that school districts may not knowingly employ individuals who have been convicted of certain offenses (principally those related to sex or drugs). All Illinois school districts require applicants to submit to a criminal background check.

TEACH_ED 302-0 Social Contexts of Education (1 Unit) Societal structures that organize, supply, and channel individual learning experiences and how they provide the formal and informal settings in which social interaction takes place, particularly in urban settings. How participation in these socializing settings molds the development of individuals’ capacities and forms their goals. Taught with LRN_SCI 302-0; may not receive credit for both courses.

TEACH_ED 304-0 Seminar on Teaching: Introduction to Schooling in Communities (1 Unit) Action research methods- including observation/field notes, interviewing, and artifact analysis-as means to understanding how schools work and how theory and practice relate. Includes 30 hours of field experience.

TEACH_ED 309-0 Speech & Communication in the School Environment (1 Unit) Communication in the classroom and school environment for teacher and student. Basic public speaking, interpersonal communication, creating a positive climate for classroom discourse, facilitating group activities.

TEACH_ED 310-0 Foundations of Learning in a New Language (1 Unit) Historical, political, sociocultural, and educational practices that impact linguistically and culturally diverse learners in American schools.

TEACH_ED 313-0 Problems in the Philosophy of Education (1 Unit) Classical and modern philosophies of education. Text interpretation, analysis of ideas, argument construction; relationship of philosophy to educational issues. Students develop their own philosophy of education.

TEACH_ED 322-0 Content Area Reading and Writing (1 Unit) Theory and practical methods of reading methodology to enable teacher candidates to scaffold the literacy skills of English-language learners and students not reading at grade level.

TEACH_ED 324-0 Critical Issues in Literacy (1 Unit) Continues on the work in MS_ED 422-0 and TEACH_ED 322-0, delving deeply into critical literacy issues.

TEACH_ED 327-0 Educating Exceptional Children (1 Unit) Students with disabilities, including learning disabilities resulting from human development and/or accidents; understanding and application of approved emergency, educational, and rehabilitative activities; interrelationships with medical, health, and educational personnel.

TEACH_ED 328-0 Dynamics of Middle School Curriculum (1 Unit) Identifying and understanding the effects of middle school dynamics (principles, structures, and practices) on classroom learning and instruction. Focuses on the development and social problems of fifth through eighth graders.

TEACH_ED 329-0 Early Adolescent Development and Intervention (1 Unit) Interaction of physical, mental, and emotional health and the surrounding social environment of middle school students; developmental characteristics of early adolescence; the middle school teacher’s role in assessment and referral.

TEACH_ED 336-0 Instructional Design & Assessment (1 Unit) Students will gain an overview of various approaches to curriculum design and instructional models, and will investigate several kinds of assessments, including formative and summative, and how those assessments are linked to instructional design, teaching and learning. Opportunities will be given to practice grading, providing good feedback, and managing a class assessment system.

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

TEACH_ED 351-0 Special Topics in Teacher Education (1 Unit) Advanced work on special topics.

TEACH_ED 355-0 Methods & Techniques: World Languages (1 Unit) Analysis of research, teaching methodologies, and literature related to the content area. Focuses on learning experiences, methods, and educational techniques appropriate for elementary, middle school, and high school students. Concurrent registration in TEACH_ED 378-0 or TEACH_ED 379-0 required.
TEACH_ED 356-0 Methods & Techniques: English (1 Unit) Analysis of research, teaching methodologies, and literature related to the content area. Learning experiences, methods, and educational techniques appropriate for high school students.

TEACH_ED 357-0 Methods and Techniques: Secondary Mathematics (1 Unit) See description for MS_ED 456-0.

TEACH_ED 358-0 Methods and Techniques: Science (1 Unit) See description for MS_ED 456-0.

TEACH_ED 359-0 Methods & Techniques: Social Science (1 Unit) See description for MS_ED 456-0.

TEACH_ED 366-0 Middle Grades Methods & Techniques of Teaching: English (1 Unit)

TEACH_ED 367-0 Middle Grades Methods & Techniques of Teaching: Mathematics (1 Unit)

TEACH_ED 368-0 Middle Grades Methods & Techniques of Teaching: Science (1 Unit)

TEACH_ED 369-0 Middle Grades Methods & Techniques of Teaching: Social Sciences (1 Unit)

TEACH_ED 373-0 Topics in High School Math (1 Unit) Content varies.

TEACH_ED 378-0 Theory and Practice of Teaching: Secondary Humanities (1 Unit) Exploration of education theory in the seminar, plus 10 hours a week of fieldwork. Concurrent registration in the applicable methods and techniques course (TEACH_ED 355-0 - TEACH_ED 359-0) required. Prerequisites: TEACH_ED 304-0 and passing score on the ILTS Test of Academic Proficiency.

TEACH_ED 379-0 Theory and Practice of Teaching: Secondary Math/Science (1 Unit) See description for MS_ED 478-0.

TEACH_ED 388-0 Student Teaching: Humanities (4 Units) Seminar and accompanying fulltime, 10-week internship involving intensive clinical experience and teaching under the supervision of a mentor. Prerequisites: TEACH_ED 304-0; TEACH_ED 378-0 or TEACH_ED 379-0; applicable course(s) from TEACH_ED 355-0 - TEACH_ED 359-0; successful completion of the practicum experience; passing score on the applicable ILTS Content Area Test.

TEACH_ED 389-0 Student Teaching Seminar: Math/Science (4 Units) See description for TEACH_ED 388-0.