CURRICULUM AND INSTRUCTION: SECONDARY SCIENCE EDUCATION, M.S.

This is a named option in the Curriculum & Instruction M.S. (http://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-ms/#textcontainer)

A Master of Science with secondary teacher certification is offered as a Master of Science in curriculum and instruction with named options in English (http://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-ms/curriculum-instruction-secondary-english-education-ms/), mathematics (http://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-ms/curriculum-instruction-secondary-mathematics-education-ms/), science, and social studies (http://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-ms/curriculum-instruction-secondary-social-studies-education-ms/). The program is a streamlined, graduate-level program which prepares students for a teaching license both in a specific content area at the secondary level (English, math, science, or social studies) and to work with English language learners (ESL certification). Additional information may be found at https://uwteach.education.wisc.edu/. Candidates may apply for more than one content area, however they will only be allowed to enroll in one area at a time. Elementary teacher certification is not available through the Department of Curriculum and Instruction Master's program. Students who desire elementary teacher certification should contact Education Academic Services (https://www.education.wisc.edu/soe/academics/undergraduate-students/academic-advising/).

The M.S. program with named option in Secondary Science Education accepts applications starting the summer of the preceding year, until the program reaches its capacity. A new cohort begins each June. The program covers two summers and an intervening academic year. Throughout this time span, students take graduate-level courses and engage in fieldwork associated with those courses. In addition, students must complete a Master's project.

ADMISSIONS

Please consult the table below for key information about this degree program’s admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program’s website. Graduate admissions is a two-step process between academic programs and the Graduate School. Applicants must meet the minimum requirements (https://grad.wisc.edu/apply/requirements/) of the Graduate School as well as the program(s).

Once you have researched the graduate program(s) you are interested in, apply online (https://grad.wisc.edu/apply/).

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Deadline</td>
<td>This program does not admit in the fall.</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>This program does not admit in the spring.</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>June 1*</td>
</tr>
<tr>
<td>GRE (Graduate Record Examinations)</td>
<td>If GPA is below a 3.0, a GRE may be required. Please consult the program.</td>
</tr>
</tbody>
</table>

ADMISSIONS REQUIREMENTS

- Baccalaureate level/bachelor's degree
- Official Transcripts
- GPA (grade point average) of 3.0 or better (exceptions can be made on a case by case basis)
- Prerequisite content courses and experiences
- TOEFL scores (for candidates wherein English is a second language or whose undergraduate study was completed in languages other than English)
- Letters of recommendation
- Statement of purpose/reasons for graduate study
- Resume

Details about these requirements can be found here (http://www.uwteach.org/admissions-requirements.html).

HOW TO APPLY

Step 1: Apply to the UW-Madison Graduate School (https://grad.wisc.edu/apply/)

Information required at this step includes the following:

- Autobiographical data
- Transcripts documenting undergraduate degree from an accredited college
- GRE scores—if applicants’ GPA is below 3.0
- International applicants—TOEFL score 92/120 and proof of funding
- Statement of purpose—open-ended format, usually not to exceed one page
- Resume (or short CV) listing your academic and professional experience as well as any other information that might be helpful to us in evaluating your application. (No specific format is required, but it should not exceed two pages in length.)
- Two letters of recommendation—up to three are allowed
- Supplemental application: This section includes open-ended prompts requesting:
  - A brief summary of your previous work with adolescents, educational settings, and/or speakers of languages other than
English. (Experience in these areas are not required, but are helpful in determining your readiness for the program.)

- An opportunity to share extenuating circumstances if you feel your GPA does not adequately reflect your academic abilities.
- In essay format, answers to three prompts specifically tailored to your subject area.

**Please note:**

- Be certain you select "Summer" as your Term of Admission in the Graduate School online application.
- The UW Secondary Education M.S. Program admits new students only for the "summer" term.
- Be certain you select Curriculum and Instruction M.S.—with your specified content area. This includes secondary education in English, Mathematics, Science or Social Studies.
- Students may only be enrolled in one subject area.
- Please read the Graduate School’s Frequently Asked Questions (FAQ) (http://grad.wisc.edu/admissions/faq/) before completing the online application.

**Step 2: Final Decisions**

After your application is complete, a content area team will review your application and share their recommendation with you and the Graduate School.

If the recommendation is favorable, the UW Graduate School will make a final decision on your application. Official transcripts and a background check must be submitted and meet necessary guidelines prior to final admission.

If the recommendation is not favorable, a letter will be sent to you outlining the concern or issue. When applicable, you may be offered an opportunity to remain on a 'waitlist,' as future spots may become available.

**PLEASE REMEMBER THAT THE EARLY APPLICANT REVIEW APPLIES TO APPLICATIONS RECEIVED BY DECEMBER 1.**

We will review applications between Dec 1 and June 1 as space allows.

## FUNDING

**GRADUATE SCHOOL RESOURCES**

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (https://grad.wisc.edu/funding/) is available from the Graduate School. Be sure to check with your program for individual policies and restrictions related to funding.

**PROGRAM RESOURCES**

Students are not permitted to accept teaching, project, or research assistantships or other appointments that would result in a tuition waiver.

## REQUIREMENTS

### MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/)

#policiesandrequirementstext), in addition to the program requirements listed below.

## NAMED OPTION REQUIREMENTS

### MODE OF INSTRUCTION

**Face to Face**

**Evening/Weekend**

**Online**

**Hybrid**

**Accelerated**

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>No</th>
<th>No</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mode of Instruction Definitions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Evening/Weekend:</strong> These programs are offered in an evening and/or weekend format to accommodate working schedules. Enjoy the advantages of on-campus courses and personal connections, while keeping your day job. For more information about the meeting schedule of a specific program, contact the program.</td>
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<tr>
<td><strong>Online:</strong> These programs are offered primarily online. Many available online programs can be completed almost entirely online with all online programs offering at least 50 percent or more of the program work online. Some online programs have an on-campus component that is often designed to accommodate working schedules. Take advantage of the convenience of online learning while participating in a rich, interactive learning environment. For more information about the online nature of a specific program, contact the program.</td>
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<tr>
<td><strong>Hybrid:</strong> These programs have innovative curricula that combine on-campus and online formats. Most hybrid programs are completed on-campus with a partial or completely online semester. For more information about the hybrid schedule of a specific program, contact the program.</td>
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<tr>
<td><strong>Accelerated:</strong> These on-campus programs are offered in an accelerated format that allows you to complete your program in a condensed time-frame. Enjoy the advantages of on-campus courses with minimal disruption to your career. For more information about the accelerated nature of a specific program, contact the program.</td>
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## CURRICULAR REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirements Detail</th>
<th>Minimum Credit Requirement</th>
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</thead>
<tbody>
<tr>
<td><strong>Minimum</strong></td>
<td>30 credits</td>
</tr>
<tr>
<td><strong>Residence</strong></td>
<td>30 credits</td>
</tr>
<tr>
<td><strong>Graduate Coursework Required</strong></td>
<td>80% of the credits taken at UW–Madison must be completed in graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university’s Course Guide (<a href="https://registrar.wisc.edu/course-guide/">https://registrar.wisc.edu/course-guide/</a>).</td>
</tr>
<tr>
<td><strong>Overall Graduate GPA Requirement</strong></td>
<td>3.00 GPA required.</td>
</tr>
<tr>
<td><strong>Other Grade Requirements</strong></td>
<td>Students must earn a B average or above in all coursework to earn the MS. For teaching certification, a candidate must earn a B or better in each course. If a candidate does not earn a B or better additional coursework may be required.</td>
</tr>
<tr>
<td><strong>Assessments and Examinations Requirements</strong></td>
<td>Requirements vary by named option; please see the program website</td>
</tr>
</tbody>
</table>
Candidates must demonstrate advanced proficiency in English to acquire the English as a Second Language certification.

### REQUIRED COURSES

There are four distinct subject-area programs within the UW-Madison Secondary Teacher Certification Program (English [link](http://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-secondary-english-education-ms/)), Mathematics (http://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-secondary-mathematics-education-ms/), Science, and Social Studies (http://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-secondary-social-studies-education-ms/)). Students apply to and are admitted to one of these areas. Students in all four, however, go through the program as a cohort and take classes and participate in school field experiences with students from across the subject areas. Teaching and learning about English as a Second Language (ESL) is a co-equal area of certification and is infused throughout the program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer 1 (Full Time - Mid June to Late August)</td>
<td><strong>Coursework</strong></td>
<td></td>
</tr>
<tr>
<td>ED POL 600</td>
<td>Problems in Educational Policy</td>
<td>3</td>
</tr>
<tr>
<td>CURRIC 672</td>
<td>Issues in ESL Education</td>
<td>2</td>
</tr>
<tr>
<td>CURRIC 675</td>
<td>General Seminar (Understanding Language)</td>
<td>2-3</td>
</tr>
<tr>
<td>CURRIC 735</td>
<td>Epistemic Practice and Science Teaching</td>
<td>2</td>
</tr>
<tr>
<td><strong>Fieldwork</strong></td>
<td></td>
<td></td>
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<tr>
<td>CURRIC 510</td>
<td>Community-Based Practicum</td>
<td>1-4</td>
</tr>
<tr>
<td>Fall: Academic Semester 1 (Full Time - Early September to Mid January)</td>
<td><strong>Coursework</strong></td>
<td></td>
</tr>
<tr>
<td>CURRIC 507</td>
<td>Inclusive Education in Secondary Schools</td>
<td>2</td>
</tr>
<tr>
<td>ED PSYCH 621</td>
<td>Adolescent Development in Educational Contexts</td>
<td>2</td>
</tr>
<tr>
<td>CURRIC 390</td>
<td>Teaching of Science in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>CURRIC 673</td>
<td>Learning Second Language and Literacies</td>
<td>2</td>
</tr>
<tr>
<td>CURRIC 729</td>
<td>Classroom Management for Secondary Educators</td>
<td>1</td>
</tr>
<tr>
<td><strong>Fieldwork</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CURRIC 511</td>
<td>School-Based Practicum</td>
<td>1-4</td>
</tr>
<tr>
<td>CURRIC 495</td>
<td>Student Teaching in Science in the Middle School</td>
<td>2-12</td>
</tr>
<tr>
<td>or CURRIC 490</td>
<td>Student Teaching in Science in the High School</td>
<td></td>
</tr>
<tr>
<td>Spring: Academic Semester 2 (Full Time - Mid January to Early June)</td>
<td><strong>Coursework</strong></td>
<td></td>
</tr>
<tr>
<td>CURRIC 590</td>
<td>Advanced Practices in the Teaching of Science</td>
<td>3</td>
</tr>
<tr>
<td>CURRIC 674</td>
<td>Advanced Methods in Teaching English as a Second Language</td>
<td>3</td>
</tr>
<tr>
<td><strong>Fieldwork</strong></td>
<td></td>
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</tr>
</tbody>
</table>

**Master’s Project**

1. The focus of this summer semester includes a field experience in the local community intended to involve program students with adolescents from diverse backgrounds. The university courses present assignments for students to carry out in the practicum sites. Within the content domain, program students will consider how academic subject knowledge is and should be translated into the curriculum.

2. CURRIC 510 is typically taken for 2 credits and CURRIC 511 is typically taken for 1 credit.

3. In this semester, program students are placed in local secondary schools. University courses provide assignments for students in their practicum sites and present concepts useful for understanding schooling, teaching, and students. Topics addressed across all coursework are working with all students, universal curriculum design, understanding contemporary adolescence, and theories of literacy and strategies in learning languages.

4. Fall student teaching is typically 4 credits and spring student teaching is typically 8 credits, and includes a seminar. These courses are only required for certification; however, they are not required for the master’s degree.

5. Program students will be immersed in a semester of student teaching. University course work provides assignments for students to carry out in their student teaching as well as concepts and practices that will enhance their instructional effectiveness. Each student will also prepare and teach an instructional unit incorporating key teachings of the university courses from both semesters. This unit will also provide evidence of meeting edTPA requirements.

6. Recommended but not required for the master’s degree.

7. In the final summer, students will complete their master’s projects under the direction of their capstone instructor and advisor. Students will also complete a portfolio including artifacts demonstrating proficiency on each of the School of Education’s Teaching Standards (https://careers.education.wisc.edu/pi34/docs/Standards.pdf).

### POLICIES

**GRADUATE SCHOOL POLICIES**

The Graduate School’s Academic Policies and Procedures ([link](https://grad.wisc.edu/acadpolicy/)) provide essential information regarding general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the
degree program faculty. Policies set by the academic degree program can be found below.

**NAMED OPTION-SPECIFIC POLICIES**

**PRIOR COURSEWORK**

**Graduate Work from Other Institutions**

Students may not transfer in credits of graduate course from other institutions.

**UW–Madison Undergraduate**

No credits from a UW–Madison undergraduate degree are allowed to count toward the degree.

**UW–Madison University Special**

No credits as a UW–Madison University Special student are allowed to count toward the degree.

**PROBATION**

The status of a student can be one of two options:

1. Satisfactory progress (progressing according to standards)
2. Unsatisfactory progress (not progressing according to standards; permitted to enroll with a specific plan including dates and deadlines in place in regards to the removal of unsatisfactory progress to avoid dismissal from the program).

**ADVISOR / COMMITTEE**

All students are required to have an advisor. An advisor is assigned to all incoming students. To ensure that they are making satisfactory progress toward a degree, students should meet with their advisor on a regular basis.

The advisor serves as the primary contact within the program and approves the candidate's capstone project. Students can be suspended from the program if they do not have an advisor.

**CREDITS PER TERM ALLOWED**

15 credits

**TIME CONSTRAINTS**

Master's degree students who have been absent for five or more consecutive years lose all credits that they have earned before their absence. Individual programs may count the coursework students completed prior to their absence for meeting program requirements; that coursework may not count toward Graduate School credit requirements.

**GRIEVANCES AND APPEALS**

These resources may be helpful in addressing your concerns:

- Bias or Hate Reporting (https://doso.students.wisc.edu/bias-or-hate-reporting/)
- Graduate Assistantship Policies and Procedures (https://hr.wisc.edu/policies/gapp/#grievance-procedure)
- Hostile and Intimidating Behavior Policies and Procedures (https://hr.wisc.edu/hib/)
  - Office of the Provost for Faculty and Staff Affairs (https://facstaff.provost.wisc.edu/)
  - Dean of Students Office (https://doso.students.wisc.edu/) (for all students to seek grievance assistance and support)
  - Employee Assistance (http://www.eao.wisc.edu/) (for personal counseling and workplace consultation around communication and conflict involving graduate assistants and other employees, post-doctoral students, faculty and staff)
- Employee Disability Resource Office (https://employeedisabilities.wisc.edu/) (for qualified employees or applicants with disabilities to have equal employment opportunities)
- Graduate School (https://grad.wisc.edu/) (for informal advice at any level of review and for official appeals of program/departmental or school/college grievance decisions)
- Office of Compliance (https://compliance.wisc.edu/) (for class harassment and discrimination, including sexual harassment and sexual violence)
- Office of Student Conduct and Community Standards (https://conduct.students.wisc.edu/) (for conflicts involving students)
- Ombuds Office for Faculty and Staff (http://www.ombuds.wisc.edu/) (for employed graduate students and post-docs, as well as faculty and staff)
- Title IX (https://compliance.wisc.edu/titleix/) (for concerns about discrimination)

Any student who feels that they have been treated unfairly by a faculty or staff member has the right to complain about the treatment and to receive a prompt hearing of the grievance, following these grievance procedures. The complaint may concern course grades, classroom treatment, program admission, or other issues. To insure a prompt and fair hearing of any complaint, and to protect both the rights of the student and the person at whom the complaint is addressed, the procedures below are used in the School of Education.

The person whom the complaint is directed against must be an employee of the School of Education. Any student or potential student may use these procedures unless the complaint is covered by other campus rules or contracts. The following steps are available within the School of Education when a student has a grievance:

1. The student should first talk with the person against whom the grievance is directed. Most issues can be settled at this level. If the complaint is directed against a teaching assistant, and the student is not satisfied, the next step would be to talk to the TA’s supervisor, who is usually the course professor. If the complaint is not resolved satisfactorily, the student may continue to step 2.

2. If the complaint does not involve an academic department, the procedure outlined in Step 4 below should be followed. If the complaint involves an academic department, the student should contact the chair of the department. The chair will attempt to resolve the problem informally. If this cannot be done to the student’s satisfaction, the student may submit the grievance to the chair in writing. This must be done within 60 calendar days of the alleged unfair treatment.

3. On receipt of a written complaint, the chair will refer the matter to a departmental committee, which will obtain a written response from the person at whom the complaint is directed. This response shall be shared with the person filing the grievance. The chair will provide a timely written decision to the student on the action taken by the committee.

4. If either party is not satisfied with the decision of the department, they have five working days from receipt of the decision to contact the dean’s office (at the number below), indicating the intention to appeal. If the complaint does not involve an academic department in the school, the student must contact the dean’s office within 60 calendar days of the alleged unfair treatment.
5. In either case, there will be an attempt to resolve the issue informally by the associate dean. If this cannot be done, the complaint can be filed in writing with the dean’s office. This must be done within 10 working days of the time the appealing party was notified that informal resolution was unsuccessful.

6. On receipt of such a written complaint, the associate dean will convene a subcommittee of the school’s Equity & Diversity Committee. This subcommittee may ask for additional information from the parties involved and may hold a hearing at which both parties will be asked to speak separately. The subcommittee will then make a written recommendation to the dean of the School of Education who will render a decision. Unless a longer time is negotiated, this written decision shall be made within 20 working days from the date when the grievance was filed with the dean’s office.

Questions about these procedures can be directed to the School of Education Dean’s Office, 377 Education Building, 1000 Bascom Mall, 608-262-1763.

State law contains additional provisions regarding discrimination and harassment. Wisconsin Statutes 36.12 reads, in part: ‘No student may be denied admission to, participation in or the benefits of, or be discriminated against in any service, program, course or facility of the system or its institutions or center because of the student’s race, color, creed, religion, sex, national origin, disability, ancestry, age, sexual orientation, pregnancy, marital status or parental status.’ In addition, UW–System prohibits discrimination based on gender identity or gender expression. Students have the right to file discrimination and harassment complaints with the Office of Compliance (https://compliance.wisc.edu/), 361 Bascom Hall, 608-265-6018, uwcomplianceoffice@wisc.edu.

OTHER

Students are not permitted to accept teaching, project, or research assistantships or other appointments that would result in a tuition waiver. Students also cannot enroll in other graduate programs or take courses outside the prescribed curriculum.

PROFESSIONAL DEVELOPMENT

GRADUATE SCHOOL RESOURCES

Take advantage of the Graduate School’s professional development resources (https://grad.wisc.edu/pd/) to build skills, thrive academically, and launch your career.

PEOPLE

Faculty: Professors Rudolph (chair), Baker (graduate program chair), Gomez, Grant, Graue, E. Halverson, Hassett, Hawkins, Hess, Popkewitz, Schweber, Tochon; Associate Professors L. Berland, M. Berland, Feinstein, Ghousseini, Ho, Pacheco, Russ, Stoddard, Vieira; Assistant Professors Bullock, C. Kirchgasler, K. Kirchgasler, Louie, McKinney de Royston, Roman, Wardrip; Affiliate Professors L. Bartlett, T. Dobbs, R. Halverson, P. Matthews, Nathan, H. Zhang. For more information about respective members of the faculty, see People (http://ci.education.wisc.edu/ci/people/faculty/) on the department website.