

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

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (<http://guide.wisc.edu/graduate/#policiesandrequirements>), in addition to the program requirements listed below.

NAMED OPTION REQUIREMENTS MODE OF INSTRUCTION

| Face to Face | Evening/ Weekend | Online | Hybrid | Accelerated |
|--------------|---------------------|--------|--------|-------------|
| Yes | No | No | No | Yes |

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW–Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

Requirement Detail

Minimum Credit Requirement

Minimum Residence Credit Requirement

Minimum Graduate Coursework Requirement

24 credits must be graduate-level coursework. Details can be found in the Graduate School's Minimum Graduate Coursework (50%) policy (<https://policy.wisc.edu/library/UW-1244>).

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|------------------------------|---|
| Overall | 3.00 GPA required. |
| Graduate GPA Requirement | This program follows the Graduate School's policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/). |
| Other Grade Requirements | 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. |
| Assessments and Examinations | PRAXIS subject test may be required if breadth of coursework does not match licensing content standards. |
| Language Requirements | Candidates must demonstrate advanced proficiency in English to acquire the English as a Second Language certification. |

REQUIRED COURSES

There are five distinct content-area programs within the UW-Madison Teacher Certification Program (English (<https://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-ms/curriculum-instruction-secondary-english-education-ms/>), Mathematics (<https://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-ms/curriculum-instruction-secondary-mathematics-education-ms/>), Science, Social Studies (<https://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-ms/curriculum-instruction-secondary-social-studies-education-ms/>), and World Language (<http://guide.wisc.edu/graduate/curriculum-instruction/curriculum-instruction-ms/curriculum-instruction-world-language-education-ms/structure-ms/curriculum-instruction-world-language-education-ms/>)). Students are admitted to one of these areas. Students in each of the five areas 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.

| Code | Title | Credits |
|--|--|---------|
| Summer 1 (Full Time - Mid-June to Late August) ¹ | | |
| <i>Coursework</i> | | |
| ED POL 600 | Problems in Educational Policy | 3 |
| CURRIC 736 | Educating Linguistically and Culturally Diverse Learners | 2 |
| CURRIC 737 | Linguistics for Educators | 2 |
| CURRIC 735 | Epistemic Practice and Science Teaching | 2 |
| <i>Fieldwork ¹</i> | | |
| CURRIC 510 | Community-Based Practicum ² | 2 |
| Fall: Academic Semester 1 (Full Time - Early September to Mid-January) ³ | | |
| <i>Coursework</i> | | |
| CURRIC 507 | Inclusive Education in Secondary Schools | 2 |
| ED PSYCH 621 | Adolescent Development in Educational Contexts | 2 |
| CURRIC 390 | Teaching of Science in Secondary Schools | 3 |
| CURRIC 673 | Learning Second Language and Literacies | 2 |

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|--|--|------|
| CURRIC 729 | Classroom Management for Secondary Educators | 1 |
| <i>Fieldwork</i> ³ | | |
| CURRIC 511 | School-Based Practicum ² | 1-4 |
| CURRIC 495 | Student Teaching in Science in the Middle School ⁴ | 2-12 |
| or CURRIC 490 | Student Teaching in Science in the High School | |
| Spring: Academic Semester 2 (Full Time - Mid-January to Early June)⁵ | | |
| <i>Coursework</i> | | |
| CURRIC 590 | Advanced Practices in the Teaching of Science | 3 |
| CURRIC 674 | Advanced Methods in Teaching English as a Second Language ⁶ | 3 |
| <i>Fieldwork</i> ³ | | |
| CURRIC 490 | Student Teaching in Science in the High School [*] | 2-12 |
| or CURRIC 495 | Student Teaching in Science in the Middle School | |
| CURRIC 675 | General Seminar ⁴ | 1 |
| Summer 2 (Full Time - Early June to Early August)⁷ | | |
| <i>Coursework</i> | | |
| ELPA 640 | Legal Rights and Responsibilities for Teachers | 1 |
| CURRIC 747 | Masters Capstone in Teacher Education ⁷ | 3 |
| CURRIC 675 | General Seminar (Professional Launch Series) ⁶ | 1-3 |
| <i>Master's Project</i> ⁴ | | |

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 Community-Based Practicum is typically taken for 2-3 credits and CURRIC 511 School-Based Practicum 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 coursework include teaching methods to engage 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 1 credit seminar. Field-based courses are required for certification.

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. During this semester, each student will prepare and teach an instructional unit incorporating concepts and theories from all previous semesters. The instructional unit exercise will also provide evidence for the Performance Assessment Portfolio.

6

Recommended but not required for the master's degree.

7

In the final summer, MS-Science students will complete their master's projects under the direction of their capstone instructor and advisor. Students will also complete a Performance Assessment Portfolio including artifacts demonstrating proficiency on each of the School of Education's Teaching Standards (<https://tec.education.wisc.edu/current-students/meeting-wisconsin-educator-standards/>).

Students in this program may not take courses outside the prescribed curriculum without faculty advisor and program director approval. Students in this program cannot enroll concurrently in other undergraduate or graduate degree programs.