### Science and Mathematics Education (SCMATHE)

#### Courses

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<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Terms Offered</th>
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<td>Practicum in Science and Math Education Research and Development</td>
<td>1-4</td>
<td>Spring 2020, Fall 2019, Spring 2019</td>
<td>Consent of instructor</td>
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<td>SCMATHE 220C</td>
<td>Instructional Design in Science and Mathematics Education</td>
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<td>Spring 2019, Spring 2017, Spring 2016</td>
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<td>SCMATHE 292</td>
<td>Research Seminar and Colloquium</td>
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<td>Consent of instructor, Course may be repeated for credit without restriction.</td>
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#### SCMATHE 210 Practicum in Science and Math Education Research and Development 1 - 4 Units

- **Terms offered:** Spring 2020, Fall 2019, Spring 2019
- **Practical experience** on an educational research or development project on campus or elsewhere for 8-12 hours per week. Class meetings augment research experience with discussions of readings and interaction with guest speakers.

#### SCMATHE 220C Instructional Design in Science and Mathematics Education 3 Units

- **Terms offered:** Spring 2019, Spring 2017, Spring 2016
- **Survey of literature** on design of instruction in science and mathematics, including development of computer-based instruction. Includes consideration of evaluation methods and development of instruction modules for topics in science and mathematics.

#### SCMATHE 292 Research Seminar and Colloquium 1 Unit

- **Terms offered:** Spring 2020, Fall 2019, Spring 2019
- **Discussion of current education research** carried on by students, faculty, and guest speakers. A written analysis of several presentations required.
SCMATHE 294 Formulation of Educational Research 1 - 3 Units
Terms offered: Spring 2020, Fall 2019, Spring 2019
Development of thesis proposal under supervision of faculty member.
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Additional Details
Subject/Course Level: Science and Mathematics Education/Graduate
Grading: Letter grade.
Formulation of Educational Research: Read Less [-]

SCMATHE 295 Research 1 - 12 Units
Terms offered: Spring 2020, Fall 2019, Spring 2019
Independent research activities under supervision of a faculty member.
Research: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Additional Details
Subject/Course Level: Science and Mathematics Education/Graduate
Grading: Letter grade.
Research: Read Less [-]

SCMATHE 299 Individual Reading and Study 1 - 5 Units
Terms offered: Spring 2020, Fall 2019, Spring 2019
Individual reading and study under the supervision of a faculty member.
Individual Reading and Study: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Additional Details
Subject/Course Level: Science and Mathematics Education/Graduate
Grading: Letter grade.
Individual Reading and Study: Read Less [-]