Science and Mathematics Education (SCMATHE)

Courses

SCMATHE 210 Practicum in Science and Math Education Research and Development 1 - 4 Units
Terms offered: Spring 2022, Fall 2021, Spring 2021
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.

Practicum in Science and Math Education Research and Development:
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 fieldwork per week

Additional Details
Subject/Course Level: Science and Mathematics Education/Graduate
Grading: Letter grade.

Practicum in Science and Math Education Research and Development:
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SCMATHE 220C Instructional Design in Science and Mathematics Education 3 Units
Terms offered: Spring 2021, Spring 2019, Spring 2017
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.

Instructional Design in Science and Mathematics Education:
Read More [+]

Rules & Requirements
Prerequisites: 220B or consent of the instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Science and Mathematics Education/Graduate
Grading: Letter grade.

Instructional Design in Science and Mathematics Education:
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SCMATHE 292 Research Seminar and Colloquium 1 Unit
Terms offered: Spring 2022, Fall 2021, Spring 2021
Discussion of current education research carried on by students, faculty, and guest speakers. A written analysis of several presentations required.

Research Seminar and Colloquium:
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 - 2 hours of colloquium per week

Additional Details
Subject/Course Level: Science and Mathematics Education/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.

Research Seminar and Colloquium:
Read Less [-]
SCMATHE 294 Formulation of Educational Research 1 - 3 Units
Terms offered: Spring 2022, Fall 2021, Spring 2021
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:

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SCMATHE 295 Research 1 - 12 Units
Terms offered: Spring 2022, Fall 2021, Spring 2021
Independent research activities under supervision of a 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.

Research:

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SCMATHE 299 Individual Reading and Study 1 - 5 Units
Terms offered: Spring 2022, Fall 2021, Spring 2021
Individual reading and study under the supervision of a 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.

Individual Reading and Study:

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SCMATHE 602 Individual Study for Qualifying Examination 1 - 8 Units
Terms offered: Spring 2022, Fall 2021, Spring 2021
Individual study, under the supervision of a faculty member, designed to prepare the student for Ph.D qualifying examination.

**Rules & Requirements**

**Prerequisites:** Consent of instructor

**Credit Restrictions:** Course does not satisfy unit or residence requirements.

**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 examination preparation

**Grading:** Offered for satisfactory/unsatisfactory grade only.

Individual Study for Qualifying Examination: