Science and Mathematics Education (SCMATHE)

Courses

SCMATHE 210 Practicum in Science and Math Education Research and Development 1 - 4 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022
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 2023, Spring 2021, Spring 2019
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: Fall 2023, Spring 2023, Fall 2022
Discussion of current education research carried on by students, faculty, and guest speakers. A written analysis of several presentations required.

SCMATHE 220C Instructional Design in Science and Mathematics Education

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.

SCMATHE 292 Research Seminar and Colloquium

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.
SCMATHE 294 Formulation of Educational Research 1 - 3 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022
Development of thesis proposal under supervision of faculty member.
Formulation of Educational 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.
Formulation of Educational Research: Read Less [-]

SCMATHE 295 Research 1 - 12 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022
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: Fall 2023, Spring 2023, Fall 2022
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 [-]

SCMATHE 602 Individual Study for Qualifying Examination 1 - 8 Units
Terms offered: Fall 2023, Spring 2023, Fall 2022
Individual study, under the supervision of a faculty member, designed to prepare the student for Ph.D qualifying examination.
Individual Study for Qualifying Examination: Read More [+]  
**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: Read Less [-]