Science and Mathematics Education (SCMATHE)

Courses

SCMATHE 210 Practicum in Science and Math Education Research and Development 1 - 4 Units
Terms offered: Fall 2024, Spring 2024, Fall 2023
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 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.
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: Fall 2024, Spring 2024, Fall 2023
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: Fall 2024, Fall 2023, Spring 2023
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.

SCMATHE 295 Research 1 - 12 Units
Terms offered: Fall 2024, Spring 2024, Fall 2023
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.

SCMATHE 299 Individual Reading and Study 1 - 5 Units
Terms offered: Fall 2024, Spring 2024, Fall 2023
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.

SCMATHE 602 Individual Study for Qualifying Examination 1 - 8 Units
Terms offered: Fall 2024, Spring 2024, Fall 2023
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 [-]