

Science and Mathematics Education (SCMATHE)

Courses

Expand all course descriptions [+]Collapse all course descriptions [-]

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: Read Less [-]

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: Read Less [-]

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.

Formulation of Educational Research: Read Less [-]

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.

Research: Read Less [-]

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.

Individual Reading and Study: Read Less [-]

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 [-]