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 2021, Spring 2021, Fall 2020  
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 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: Read Less [-]  

SCMATHE 292 Research Seminar and Colloquium 1 Unit  
Terms offered: Fall 2021, Spring 2021, Fall 2020  
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 2021, Spring 2021, Fall 2020
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: Fall 2021, Spring 2021, Fall 2020
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: Read Less [-]

SCMATHE 299 Individual Reading and Study 1 - 5 Units
Terms offered: Fall 2021, Spring 2021, Fall 2020
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: Read Less [-]

SCMATHE 602 Individual Study for Qualifying Examination 1 - 8 Units
Terms offered: Fall 2021, Spring 2021, Fall 2020
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: Read Less [-]