Natural Sciences-NSCI (NSCI)

Courses

NSCI 192 Introductory Seminar Credits: 2 (0-0-2)
Course Description: Introduction to the culture and values of science and the College of Natural Sciences.
Prerequisite: None.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

NSCI 295 Independent Study-Natural Sciences Credits: Var[1-3]
Course Description:
Prerequisite: None.
Registration Information: Written consent of Natural Sciences Dean's Office required.
Terms Offered: Fall, Spring, Summer.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

NSCI 296 Group Study-Natural Sciences Credits: Var[1-3]
Course Description:
Prerequisite: None.
Registration Information: Written consent of Natural Sciences Dean's Office required.
Terms Offered: Fall, Spring, Summer.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

NSCI 298 Undergraduate Research-Natural Sciences Credits: Var[1-3]
Course Description:
Prerequisite: None.
Registration Information: Written consent of Natural Sciences Dean's Office required.
Terms Offered: Fall, Spring, Summer.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

NSCI 384 Supervised College Teaching Credits: Var[1-3]
Course Description: Supervised experience in a computer lab.
Prerequisite: None.
Registration Information: Written consent of instructor required.
A maximum of 10 combined credits for all 384 and 484 courses are counted towards graduation requirements.
Terms Offered: Fall, Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

NSCI 487 Internship-Natural Sciences Credits: Var[1-6]
Course Description:
Prerequisite: None.
Registration Information: Written consent of Natural Sciences Dean's Office required.
Terms Offered: Fall, Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

NSCI 495 Independent Study-Natural Sciences Credits: Var[1-3]
Course Description:
Prerequisite: None.
Registration Information: Written consent of Natural Sciences Dean's Office required.
Terms Offered: Fall, Spring, Summer.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

NSCI 496 Group Study-Natural Sciences Credits: Var[1-3]
Course Description:
Prerequisite: None.
Registration Information: Written consent of Natural Sciences Dean's Office required.
Terms Offered: Fall, Spring, Summer.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

NSCI 498 Undergraduate Research-Natural Sciences Credits: Var[1-3]
Course Description:
Prerequisite: None.
Registration Information: Written consent of Natural Sciences Dean's Office required.
Terms Offered: Fall, Spring, Summer.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

NSCI 579 Animal Behavior in Captive Populations Credits: 3 (3-0-0)
Also Offered As: VS 579.
Course Description: How animals learn, perceive their work, and behave, and how all of those intersect to alter behavior in captive settings.
Prerequisite: BZ 300.
Registration Information: Enrollment in the M.P.N.S., Zoo, Aquarium, and Shelter Management specialization can be used in place of BZ 300. Credit not allowed for both NSCI 579 and VS 579.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

NSCI 590A Workshop in Instruction, Science Instruction in Rural Colorado Credits: Var[1-3]
Course Description:
Prerequisite: None.
Terms Offered: Fall, Spring, Summer.
Grade Mode: S/U Sat/Unsat Only.
Special Course Fee: No.

NSCI 590B Workshop in Instruction, Mathematics Instruction in Rural Colorado Credits: Var[1-3]
Course Description:
Prerequisite: None.
Terms Offered: Fall, Spring, Summer.
Grade Mode: S/U Sat/Unsat Only.
Special Course Fee: No.
NSCI 590C Workshop in Instruction, Small Scale Science-Teachers as Researchers Credits: 4 (2-4-0)
Course Description: 
Prerequisite: None. 
Registration Information: Must register for lecture and laboratory. 
Terms Offered: Fall, Spring, Summer. 
Grade Mode: Instructor Option. 
Special Course Fee: No. 

NSCI 590D Workshop in Instruction, Colorado Science Teacher Enhancement Project Credits: 7 (0-0-7)
Course Description: 
Prerequisite: None. 
Registration Information: Must register for lecture and laboratory. 
Terms Offered: Fall, Spring, Summer. 
Grade Mode: Instructor Option. 
Special Course Fee: No. 

NSCI 590E Workshop in Instruction-Summer Mathematics Credits: 3 (0-0-3)
Course Description: 
Prerequisite: None. 
Terms Offered: Fall, Spring, Summer. 
Grade Mode: Instructor Option. 
Special Course Fee: No. 

NSCI 590G Workshop in Instruction, Small Scale Chemistry Credits: 2 (1-2-0)
Course Description: 
Prerequisite: None. 
Registration Information: Must register for lecture and laboratory. 
Terms Offered: Fall, Spring, Summer. 
Grade Mode: Instructor Option. 
Special Course Fee: No. 

NSCI 596 Small Scale Science Group Study Credits: Var[1-3]
Course Description: 
Prerequisite: None. 
Terms Offered: Fall, Spring, Summer. 
Grade Modes: S/U within Student Option, Trad within Student Option. 
Special Course Fee: No. 

NSCI 601 Master of Profess. Natural Sciences Ethics Credit: 1 (0-0-1)
Also Offered As: PHIL 601. 
Course Description: Ethical issues involving the care and treatment of animals in captive environments. Lectures, case studies, discussions, and student presentations. 
Prerequisite: None. 
Registration Information: Enrollment in the Master of Professional Natural Sciences program. Credit not allowed for both NSCI 601 and PHIL 601. This is a partial-semester course. 
Term Offered: Fall. 
Grade Mode: Traditional. 
Special Course Fee: No. 

NSCI 610 Team Research in Quantitative Ecology Credits: 3 (2-2-0)
Course Description: Interdisciplinary team-based research aimed at studying real-life models in quantitative ecology using mathematical and statistical tools. 
Prerequisite: None. 
Restriction: Must be a: Graduate, Professional. 
Registration Information: Written consent of instructor. Must register for lecture and laboratory. 
Term Offered: Spring. 
Grade Mode: Traditional. 
Special Course Fee: No. 

NSCI 619 Physics for Science Educators Credits: 3 (0-0-3)
Course Description: Materials and energy transduction for grade 6-12 science teachers, with emphasis on optics, acoustics, and electromagnetism. 
Prerequisite: None. 
Restriction: Must be a: Graduate, Professional. 
Registration Information: Admission to the Master of Professional Natural Sciences program. Sections may be offered: Online. 
Terms Offered: Fall, Spring, Summer. 
Grade Mode: Traditional. 
Special Course Fee: No. 

NSCI 620 Chemistry for Science Educators Credits: 3 (0-0-3)
Course Description: Theoretical and experimental chemistry for grade 6-12 science teachers, with emphasis on water chemistry. 
Prerequisite: None. 
Restriction: Must be a: Graduate, Professional. 
Registration Information: Admission to the Master of Professional Natural Sciences program. Sections may be offered: Online. 
Terms Offered: Fall, Spring, Summer. 
Grade Mode: Traditional. 
Special Course Fee: No. 

NSCI 630 Spectroscopy for Science Educators Credits: 3 (0-0-3)
Course Description: Theory and applications of spectroscopy for grade 6-12 science teachers. 
Prerequisite: None. 
Restriction: Must be a: Graduate, Professional. 
Registration Information: Admission to the Master of Professional Natural Sciences program. Sections may be offered: Online. 
Terms Offered: Fall, Spring, Summer. 
Grade Mode: Traditional. 
Special Course Fee: No. 

NSCI 640 Energetics for Science Educators Credits: 3 (0-0-3)
Course Description: Production and use of energy for grade 6-12 science teachers, with emphasis on chemical and biological systems. 
Prerequisite: None. 
Restriction: Must be a: Graduate, Professional. 
Registration Information: Admission to the Master of Professional Natural Sciences program. Sections may be offered: Online. 
Terms Offered: Fall, Spring, Summer. 
Grade Mode: Traditional. 
Special Course Fee: No.
NSCI 650  Pollution and Environmental Biology for Educators  Credits: 3 (0-0-3)
Course Description: Biological consequences of energy production and consumption for grade 6-12 science teachers.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Admission to the Master of Professional Natural Sciences program. Sections may be offered: Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

NSCI 660  Evolutionary Biology for Educators  Credits: 3 (0-0-3)
Course Description: Evolutionary theory, with an emphasis on innovative methods for teaching evolutionary biology in grades 6-12.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Admission to Master of Natural Sciences Education (M.N.S.E.) degree program. Sections may be offered: Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

NSCI 687A  MPNS Internship: Preparation  Credits: Var[1-4]
Course Description:
Prerequisite: None.
Registration Information: Admission to Master of Natural Sciences Education (M.N.S.E.) degree program.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

NSCI 687B  MPNS Internship: Project  Credits: Var[1-8]
Course Description:
Prerequisite: NSCI 687A - at least 4 credits.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

NSCI 693  Seminar--MPNS  Credit: 1 (0-0-1)
Course Description: Students will present and discuss current research relevant to their specialization(s) and present results of their internships and group projects.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Enrollment in MPNS program.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

NSCI 695  Independent Study for the MNSE  Credits: 3 (0-0-3)
Course Description: Independent study based on review of the primary scientific literature in biology, chemistry, or physics.
Prerequisite: NSCI 698.
Restriction: Must be a: Graduate, Professional.
Registration Information: Written consent of instructor.
Term Offered: Summer.
Grade Mode: Traditional.
Special Course Fee: No.

NSCI 696  Group Study  Credits: Var[1-6]
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Bachelor’s degree required. Sections may be offered: Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

NSCI 698  Research Experience in Natural Sciences  Credits: 6 (0-0-6)
Course Description: Research experience in biology, chemistry, or physics.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Nine credits MNSE program coursework.
Term Offered: Summer.
Grade Mode: Traditional.
Special Course Fee: No.