SCIENCE APPLICATIONS (SCIA)

College of Rural and Community Development
Community Based Science (https://uaf.edu/rural/academics/departments/)
907-474-5029

SCIA F101L   Natural Science Lab Course
1 Credit
Offered As Demand Warrants
Provides laboratory experience emphasizing contemporary biological topics for transfer students who are not science majors and who have completed a natural science course with no laboratory section at another institution. For non-science majors. Special lab fees apply.
Prerequisites: A university-level natural science course.
Special Notes: Students will complete two labs on applying the scientific method and 10 labs in any of the following study areas in natural science, physics, chemistry, biology or geoscience.
Attributes: UAF GER Natural Science Req
Lecture + Lab + Other: 0 + 6 + 0
Grading System: Letter Grades with option of Plus/Minus

SCIA F105   Field Biology
2 Credits
Offered As Demand Warrants
Students will learn some of the techniques that are employed by wildlife biologists to study plants, fish and animals in the field and establish use of the scientific method through a student research project.
Lecture + Lab + Other: 20 + 20 + 0
Grading System: Letter Grades with option of Plus/Minus

SCIA F115   Introduction to Undergraduate Research
2 Credits
Offered Summer
This course introduces research methods with an emphasis on biosciences. Topics covered include searching and evaluating scientific literature, identifying a research question, selecting a study approach, scientific method and experimental design, data collection and analysis, research ethics, scientific writing and plagiarism, effective presentation methods, peer review process and grant writing.
Lecture + Lab + Other: 2 + 0 + 0
Grading System: Letter Grades with option of Plus/Minus

SCIA F125   Undergraduate Research Experience
2 Credits
Offered Summer
Required course for RAHI research track students. This course will facilitate mentored research experience for RAHI research track students. Students will accomplish a research project under the guidance of a UAF faculty. Course will conclude with a research report and presentation on research activities.
Lecture + Lab + Other: 2 + 0 + 0
Grading System: Letter Grades with option of Plus/Minus

SCIA F150   Subarctic Horticulture
1 Credit
Offered As Demand Warrants
Soils, plant propagation, disease and insect control, variety selection, fertilization, greenhouse construction and care and gardening techniques. Emphasis on development and care of greenhouses and gardens in the Nome area.
Lecture + Lab + Other: 0 + 3 + 0
Grading System: Letter Grades with option of Plus/Minus

SCIA F150P   Subarctic Horticulture
1 Credit
Offered As Demand Warrants
Soils, plant propagation, disease and insect control, variety selection, fertilization, greenhouse construction and care and gardening techniques. Emphasis on development and care of greenhouses and gardens in the Nome area.
Lecture + Lab + Other: 1 + 0 + 0
Grading System: Pass/Fail Grades

SCIA F157   Alaska Plants   (n)
1 Credit
Offered As Demand Warrants
Introduction to the topics of plant taxonomy and identification with specific reference to common Alaskan plants and vegetation types.
Lecture + Lab + Other: 1 + 0 + 0
Grading System: Letter Grades with option of Plus/Minus

SCIA F161   Birds of Alaska
1 Credit
Offered As Demand Warrants
Biology of birds including behavior, anatomy, physiology, ecology, systematics and field identification.
Lecture + Lab + Other: 1 + 0 + 0
Grading System: Letter Grades with option of Plus/Minus

SCIA F162   Mammals of Alaska   (n)
1 Credit
Offered As Demand Warrants
Introduction to the mammals of Alaska and their importance to the local ecology and economy from a scientific research standpoint. Emphasis on important and/or common species for study of classification, habitat, life cycle and economic importance.
Prerequisites: Background or interest in general science or natural history.
Lecture + Lab + Other: 1 + 0 + 0
Grading System: Letter Grades with option of Plus/Minus