### NATURAL RESOURCES MANAGEMENT (NRM)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Offered</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Lecture + Lab + Other</th>
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<tr>
<td>NRM F101</td>
<td>Natural Resources Conservation and Policy</td>
<td>3</td>
<td>Fall</td>
<td>History of natural resources conservation and policy in the United States, including the evolution of federal land and water management agencies and policies. Case studies of current natural resource conservation issues, both in the United States and internationally, that examine the interaction of society and the environment and explore solutions. <strong>Prerequisites:</strong> Placement in WRTG F111X.</td>
<td><strong>Lecture:</strong> Placement in WRTG F111X.</td>
<td>3 + 0 + 0</td>
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<tr>
<td>NRM F102</td>
<td>Practicum in Natural Resources Management</td>
<td>1-2</td>
<td></td>
<td>Practical experience in natural resources management. Supervised individual study on a farm, in a greenhouse, managed forest, agency or business, or another approved location. <strong>Prerequisites:</strong> Natural Resource Management majors only and permission of instructor.</td>
<td><strong>Lecture:</strong> Placement in WRTG F111X.</td>
<td>1-2 + 0 + 0</td>
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<tr>
<td>NRM F111</td>
<td>Introduction to Sustainability Science</td>
<td>3</td>
<td>Spring</td>
<td>Sustaining the health, wellbeing, and productivity of social-ecological systems requires integrated assessments of social, economic, and ecological sustainability challenges. Meeting these challenges often requires action plans that move from understanding theory to the implementation of new policies and facilitation of behavioral change. This course introduces the principles that form the basis of sustainability science, with an emphasis on natural resource management issues. <strong>Prerequisite:</strong> NRM F101; placement in WRTG F111X.</td>
<td><strong>Lecture:</strong> Placement in WRTG F111X.</td>
<td>3 + 0 + 0</td>
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<tr>
<td>NRM F125</td>
<td>Our Changing Climate: Past, Present, Future</td>
<td>3</td>
<td>Fall</td>
<td>Examines how the biophysical impacts of climate change define and intersect with social, ecological, economic, political and cultural dimensions of our lives. Provides a foundation in both Indigenous and Western science perspectives of the causes, impacts and feedbacks of a changing climate. Includes theoretical and project-based experience in climate change. <strong>Prerequisites:</strong> Placement in WRTG F111X. <strong>Cross-listed with:</strong> ACNS F125, HONR F125, RD F125.</td>
<td><strong>Lecture:</strong> Placement in WRTG F111X.</td>
<td>3 + 0 + 0</td>
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<tr>
<td>NRM F161</td>
<td>Wilderness Leadership Education</td>
<td>3</td>
<td>Summer</td>
<td>Introduction to outdoor education. Includes both theoretical and practical exposure to quality judgment and decision-making, environmental education techniques and leadership development in the wilderness setting. Provides detailed exposure to the Wilderness Education Association's 18 essential components of wilderness leadership and backcountry safety. The field portion of the course includes detailed instruction in and mentored experience with modern backcountry travel techniques. Successful completion earns certification in the Wilderness Stewardship Program. Field program requires travel through rough un-trailed terrain with heavy packs and average strength and stamina. No use of alcohol, tobacco, illegal drugs or firearms. <strong>Prerequisites:</strong> Permission of instructor. <strong>Recommended:</strong> BIOL F104X, NRM F101 and physical geography.</td>
<td><strong>Lecture:</strong> Placement in WRTG F111X.</td>
<td>0.5 + 0 + 6</td>
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<tr>
<td>NRM F204</td>
<td>Public Lands Law and Policy</td>
<td>3</td>
<td>Spring</td>
<td>Background on selected federal lands management legislation and agency policies affecting resources conservation, development and preservation. <strong>Prerequisites:</strong> Sophomore class standing.</td>
<td><strong>Lecture:</strong> Placement in WRTG F111X.</td>
<td>3 + 0 + 0</td>
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<tr>
<td>NRM F210</td>
<td>Principles of Sustainable Agriculture</td>
<td>3</td>
<td>Spring</td>
<td>Basic principles of sustainable agriculture including economic, social, and environmental concepts. Agroecology is introduced as the basis for sustainable soil, plant, and animal agriculture techniques. Sustainable agriculture concepts will be related to current issues such as population growth, resource availability, and developing social structures and preferences. <strong>Prerequisites:</strong> NRM F101.</td>
<td><strong>Lecture:</strong> Placement in WRTG F111X.</td>
<td>3 + 0 + 0</td>
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<tr>
<td>NRM F211</td>
<td>Introduction to Applied Plant Science</td>
<td>3</td>
<td>Fall</td>
<td>Basic principles and requirements for plant growth and development with special attention to the production and management of field and greenhouse grown crops.</td>
<td><strong>Lecture:</strong> Placement in WRTG F111X.</td>
<td>3 + 0 + 0</td>
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<tr>
<td>NRM F212</td>
<td>Greenhouse Management</td>
<td>3</td>
<td>Spring</td>
<td>The greenhouse as a controlled environment for research, education and commercial production of plants; the physical environment; environmental controls and monitors; plant cultivation techniques and crop scheduling useful in plant science and commercial production. <strong>Prerequisites:</strong> MATH F151X.</td>
<td><strong>Lecture:</strong> Placement in WRTG F111X.</td>
<td>3 + 0 + 0</td>
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<tr>
<td>NRM F240</td>
<td>Natural Resources Measurement and Inventory</td>
<td>3</td>
<td>Fall</td>
<td>Techniques and instrumentation used to measure and inventory natural resources, including land, timber, range, wildlife, water and recreation resources. <strong>Prerequisites:</strong> MATH F151X.</td>
<td><strong>Lecture:</strong> Placement in WRTG F111X.</td>
<td>2 + 3 + 0</td>
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NRM F277  Introduction to Conservation Biology  
3 Credits  
Offered Spring Even-numbered Years  
Introduction to the basic ecological, genetic, management, legal and historical developments in conservation biology and focused efforts to manage biological diversity resources, with a status review of important habitats and endangered species.  
Prerequisites: BIOL F115X; BIOL F116X.  
Lecture + Lab + Other: 3 + 0 + 0

NRM F290  Field Course of Natural Resource Management Complexity in Alaska  
2 Credits  
Offered Spring  
A 10-day field course examining ecological and societal factors that create challenges to sustainable management of Alaska's natural resources. Topics include agriculture, forestry, fisheries, wildlife management, wildland fire response and management, energy development, recreation and tourism.  
Prerequisite: Permission of instructor.  
Lecture + Lab + Other: 1 + 0 + 3

NRM F300  Internship in Natural Resources Management  
1-3 Credits  
Offered As Demand Warrants  
Supervised pre-professional experience in a business or agency (public or private). Open to students majoring or minoring in natural resources management only. Course may be repeated for credit up to a maximum of 6 credits.  
Prerequisites: NRM F101; junior standing with 3.0 GPA; permission of instructor; an approved internship plan.  
Lecture + Lab + Other: 0 + 0 + 3-10

NRM F303X  Environmental Ethics and Actions  
3 Credits  
Offered Spring  
Exploration of the history of modern Western views of the relationship between people and nature, alternative foundations for an environmental ethic (utilitarianism, spiritual activity, rights-based and respect-based ethics) and practices of such ethics in business, profession and general lifestyle today.  
Prerequisites: Junior standing; placement in WRTG F111X.  
Attributes: UAF GER Ethics Req  
Lecture + Lab + Other: 3 + 0 + 0

NRM F313  Introduction to Plant Pathology  
4 Credits  
Offered As Demand Warrants  
Plant pathology; non-parasitic and parasitic causes of plant diseases; methods of plant infestation and mechanism of plant defenses; epidemiology and disease control.  
Prerequisites: BIOL F115X; BIOL F116X.  
Recommended: BIOL F239.  
Lecture + Lab + Other: 3 + 3 + 0

NRM F338  Introduction to Geographic Information Systems  
3 Credits  
Offered Fall  
Geographic data concepts including mapping systems, data sources, editing data, GIS analysis and computer mapping. Introduction to global positioning systems. GIS applications in natural resources management.  
Prerequisites: Knowledge of PCs or Unix workstations desirable.  
Cross-listed with GEOG F338.  
Lecture + Lab + Other: 2 + 3 + 0

NRM F361  Advanced Wilderness Leadership Education  
3 Credits  
Offered Spring  
The natural environment, concentrating on outdoor leadership, environmental ethics, minimum impact camping, forest and Arctic natural history, and adaptable judgment and decision-making. Includes hiking through boreal forest and along tundra ridges, river crossing, glacier ascent, and skills to do these activities safely. Other mediums of travel could include sea kayaks, canoes or rock climbing. Three lecture sessions will preview a demanding educational field program of 5-15 days requires travel through rough un-trailied terrain with heavy packs or boats and average strength and stamina. No use of alcohol, tobacco, illegal drugs or firearms.  
Prerequisites: NRM F101; NRM F161.  
Lecture + Lab + Other: 0.5 + 0 + 6

NRM F365  Principles of Outdoor Recreation Management  
3 Credits  
Offered Fall Even-numbered Years  
Theories, practices, economics and problems fundamental to the use of land and related natural resources for recreation. The course focuses on human dimension related issues faced by recreation managers and research to address those issues.  
Prerequisites: NRM F101; STAT F200X; junior standing.  
Lecture + Lab + Other: 3 + 0 + 0

NRM F366  Survey Research in Natural Resources Management  
3 Credits  
Offered Spring  
Research methods to support research and planning in recreation and human dimensions of natural resources management. Course topics include quantitative theories and concepts that have been applied to study human dimensions of natural resource management, study design, survey development and administration, sampling and data analysis.  
Prerequisites: NRM F101; STAT F200X.  
Lecture + Lab + Other: 2 + 3 + 0

NRM F370  Introduction to Watershed Management  
3 Credits  
Offered Fall Odd-numbered Years  
The hydrologic cycle and the influence of land management techniques on water quantity, quality and timing. Water yield, soil erosion and non-point pollution, snowpack management, and land use alternatives.  
Prerequisites: NRM F101.  
Lecture + Lab + Other: 2 + 3 + 0

NRM F375  Natural Resource Ecology  
3 Credits  
Offered Spring  
Basic ecology concepts, including physical (wind, temperature, water, etc.), biotic (population and community dynamics), genetic successional and landscape dynamics will be covered. Basic physiological characteristics of trees, succession, vegetation classification, and related concepts. Stand structure, diversity, competition, growth, forest-soil interactions, biomass, nutrient distribution and dynamics, energy relations, ecology of disturbances.  
Prerequisites: NRM F240.  
Lecture + Lab + Other: 3 + 0 + 0
NRM F380  Soils and the Environment  (W)  
3 Credits  
Offered Fall  
Soil development and classification; physical and chemical properties; 
biological activity; water movement and nutrient cycling in natural and 
manipulated ecosystems. 
Prerequisites: CHEM F105X; WRTG F111X; WRTG F211X, WRTG F212X, 
WRTG F213X or WRTG F214X. 
Lecture + Lab + Other: 2 + 3 + 0  
NRM F403  Environmental Decision-Making  (O, W)  
3 Credits  
Offered Fall  
Analysis of philosophical/ethical, economic, scientific and political 
foundations of diverse natural resource management perspectives. 
Prerequisites: COJO F131X or COJO F141X; NRM F101; junior standing. 
Lecture + Lab + Other: 3 + 0 + 0  
NRM F407  Environmental Law  
3 Credits  
Offered Spring Odd-numbered Years  
The role of common law theory in regulatory, statutory and constitutional 
interpretation in the field of environmental protection, including air and 
water pollution, toxic/hazardous substances and land-use regulation. 
Prerequisites: Junior or senior class standing. 
Lecture + Lab + Other: 3 + 0 + 0  
NRM F423  Geopolitics of Energy  (S)  
3 Credits  
Offered Fall Odd-numbered Years  
Examines the impacts that energy resource exploration, development, 
production, and transportation have on the internal politics of various 
countries in the world, and on international economic and political 
relationships. Explores the cultural, political, economic, physical, and 
historical underpinnings of contemporary geopolitical events involving 
energy resources, and explores possible future scenarios. 
Prerequisites: One of the following courses: GEOG F101X, GEOG F312, 
GEOG F405, GEOG F407, NRM F101, NRM F403, PS F201X, PS F221X, 
PS F304, PS F323, ECON F235X, ECON F235, ECON F335, ECON F439 or ECON F463; 
junior standing. 
Cross-listed with GEOG F423, GEOG F423. 
Special Notes: Recommended GEOG F101X. 
Lecture + Lab + Other: 3 + 0 + 0  
NRM F430  Resource Management Planning  
3 Credits  
Offered Spring  
Application of planning and conflict resolution principles to natural 
resources management. Examines plans prepared in response to current 
Alaska resource disputes, including wolf, brown bear, boreal forest and 
recreation river plans. Includes public involvement, consensus building, 
the basic steps in the planning process and resource dispute simulations. 
Review resource management plans and develop plans for a local 
resource management issue. 
Prerequisites: Senior standing. 
Stacked with NRM F630. 
Lecture + Lab + Other: 3 + 0 + 0  
NRM F435  GIS Analysis  
4 Credits  
Offered Spring  
GIS analysis of natural resources including spatial query, attribute query, 
vector, grid, image, topographic and network analysis techniques. 
Cross-listed with GEOG F435. 
Lecture + Lab + Other: 3 + 3 + 0  
NRM F453  Harvesting and Utilization of Forest Products  
3 Credits  
Offered Fall Odd-numbered Years  
Manual and mechanized timber harvesting systems including timber 
cutting, yarding and transport processes. Technology of processing 
wood into various products. Introduction to supply and demand of 
forest products from a world, state and local perspective. Labs include 
visits to local forest products companies, chainsaw safety and wood 
identification. 
Prerequisites: NRM F101. 
Lecture + Lab + Other: 2 + 3 + 0  
NRM F454  Comparative Farming and Sustainable Food Systems  
3 Credits  
Offered As Demand Warrants  
Principles of food systems geography and food security. Cross-cultural 
examination of dietary traditions, poverty, hunger, equity and food 
access and distribution. Comparison of multiple varieties and scales of 
agricultural systems in the context of social, ecological and economic 
sustainability. 
Prerequisites: WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; 
junior standing. 
Cross-listed with GEOG F454 and CCS F454. 
Lecture + Lab + Other: 3 + 0 + 0  
NRM F461  Interpretive Services  
3 Credits  
Offered As Demand Warrants  
Naturalist and other visitor programs in outdoor recreation areas: 
philosophy, planning and development of interpretive programs; 
resources, agencies, users, interpretive media and program evaluation. 
Prerequisites: Junior standing. 
Lecture + Lab + Other: 3 + 0 + 0  
NRM F464  Wilderness Management  
3 Credits  
Offered Spring  
Wilderness ecology and land management practices on lands designated 
as wilderness. Plus, visitor management regimes are analyzed. Both 
national and international views of wilderness are presented. 
Prerequisites: A basic course in ecology; resource management. 
Cross-listed with GEOG F464. 
Lecture + Lab + Other: 3 + 0 + 0  
NRM F466  Environmental Soil Chemistry  
3 Credits  
Offered Spring Odd-numbered Years  
Covers basic principles of soil chemical processes, including soil solution 
chemistry; precipitation/dissolution and soil colloids; soil solid phase; 
soil acidity/alkalinity; adsorption and ion exchange; reduction/oxidation 
reactions; and kinetics of soil chemical processes. Labs include soil 
chemical analyses, computer simulation models for soil chemistry, and 
experience writing technical reports. 
Prerequisites: CHEM F105X; CHEM F106X; NRM F380. 
Lecture + Lab + Other: 2 + 3 + 0  
NRM F480  Soil Management for Quality and Conservation  
3 Credits  
Offered Fall Odd-numbered Years  
Managing soil in disturbed and natural ecosystems to reduce soil losses 
and maintain or improve soil quality. Methods for maintaining soil quality, 
preserving soil against loss from erosion, remediating contaminated soil 
and reclaiming degraded soils. 
Prerequisites: NRM F380. 
Lecture + Lab + Other: 3 + 0 + 0
NRM F484 Senior Thesis in Natural Resources Management (W) 2 Credits
Problem-solving with emphasis on writing and analysis. Individual project under the guidance of faculty sponsor involving formulation of a question in natural resources management and preparation of a formal, comprehensive written report. Final thesis and presentation.
Prerequisites: GEOG F483 and permission of instructor.
Lecture + Lab + Other: 2 + 0 + 0

NRM F485 Soil Biology (n) 3 Credits
Offered Fall Even-numbered Years
Major groups of organisms in the soil and their interrelationships; the major biological processes which take place in the soil and their significance to soil productivity, plant growth and environmental quality; and methodology for studying soil organisms and soil biological processes.
Prerequisites: A course in biology or microbiology and a course in soils.
Lecture + Lab + Other: 3 + 0 + 0

NRM F489 Alaska Soil Geography Field Trip 1 Credit
Offered Summer; As Demand Warrants
Soil geography transect from Pacific (Anchorage) to Arctic (Deadhorse) coast. Hands-on experience describing and sampling soils, with emphasis on how a variety of ecological factors and climate affect soil formation and classification.
Prerequisites: NRM F380, or a course in soils.
Stacked with NRM F689.
Special Notes: Students must provide their own camp gear be able to walk on uneven or rocky ground and be physically fit for fieldwork.
Lecture + Lab + Other: 1 + 0 + 0

NRM F601 Research Methods in Natural Resources Management 2 Credits
Offered Fall
Introduction for graduate students to the research methods employed in the various fields of resource management, including agriculture, forestry, ecology and social sciences. Designed to acquaint students with the relationship between theory and research, the nature of scientific inquiry, approaches to research, the sequence of steps involved in scientific investigation and the presentation of research results.
Prerequisites: Graduate standing.
Lecture + Lab + Other: 2 + 0 + 0

NRM F613 Resilience Internship 2 Credits
Offered As Demand Warrants
Students of the Resilience and Adaptation Program participate in internships to broaden their interdisciplinary training, develop new research tools and build expertise outside their home disciplines. Internships are for eight to ten weeks of full time commitment and take place during the student’s first summer in the program. In autumn students meet to discuss their internship experiences and make public presentations.
Prerequisites: ANTH F667, BIOL F667, ECON F667 or NRM F667; ANTH F668, BIOL F668, ECON F668 or NRM F668.
Cross-listed with ANTH F617; BIOL F613; ECON F613.
Lecture + Lab + Other: 2 + 0 + 0

NRM F616 Ecological Background for Resilience and Adaptation 1 Credit
Offered Fall
Provides the ecological background that is necessary for understanding the role of ecology in complex systems involving interactions among biological, economic, and social processes. Designed for incoming students of the Resilience and Adaptation Program (RAP), who have not received training in ecology.
Prerequisites: Graduate standing.
Cross-listed with BIOL F616.
Lecture + Lab + Other: 1 + 0 + 0

NRM F630 Resource Management Planning 3 Credits
Offered As Demand Warrants
Application of planning and conflict resolution principles to natural resources management. Examines plans prepared in response to current Alaska resource disputes, including wolf, brown bear, boreal forest and recreation river plans. Includes public involvement, consensus building, the basic steps in the planning process and resource dispute simulations. Review resource management plans and develop plans for a local resource management issue.
Prerequisites: Graduate standing.
Stacked with NRM F430.
Lecture + Lab + Other: 3 + 0 + 0

NRM F637 Evolution of Conservation Concepts and Policy 3 Credits
Offered Spring
Resource policy issues development and implementation including forestry, mining, fisheries, oil, wildlife and other topics as demand warrants. Focus on policy issues involved in management of Alaska’s resources.
Prerequisites: Graduate standing.
Cross-listed with ECON F637.
Lecture + Lab + Other: 3 + 0 + 0

NRM F638 GIS Programming 3 Credits
Offered Spring Odd-numbered Years
GIS programming for ArcView, Arc/Info and ArcGIS. Programming techniques for customizing GIS, efficient batch processing, and development of custom tools for GIS display and analysis.
Prerequisites: NRM F338.
Lecture + Lab + Other: 3 + 0 + 0

NRM F641 Natural Resource Applications of Remote Sensing 3 Credits
Offered Spring Even-numbered Years
Application of remote sensing for inventory and analysis of natural resources. Topics include aerial photography applications and digital remote sensing, including image display, rectification, classification and accuracy assessment.
Prerequisites: NRM F338.
Lecture + Lab + Other: 3 + 0 + 0
NRM F647  Sustainability in the Changing North
3 Credits
Offered As Demand Warrants
Explores the basic principles of sustainability of environmental and social systems. Principles are applied across a range of scales from local communities to the globe, with an emphasis on examples in Alaska and the Arctic. Specific attention to the theory and practice of boundary spanning and knowledge coproduction.
Prerequisites: Graduate standing.
Cross-listed with ANTH F647; BIOL F647; ECON F647.
Lecture + Lab + Other: 3 + 0 + 0

NRM F649  Integrated Assessment and Adaptive Management
3 Credits
Offered As Demand Warrants
An interdisciplinary exploration of the theoretical and practical considerations of integrated assessment and adaptive management. Students survey concepts important in understanding societal and professional-level decision-making. Students work as individuals and as a team to undertake case studies with relevance to integrated assessment and adaptive management.
Prerequisites: Graduate student standing in a natural science, social science or interdisciplinary program at UAF or another university.
Recommended: ANTH F647, BIOL F647, ECON F647, NRM F647; ANTH F667, BIOL F667, ECON F667, NRM F667.
Cross-listed with ANTH F649; BIOL F649; ECON F649.
Special Notes: In case of enrollment limit, priority will be given to graduate students in the Resilience and Adaptation Program in order for them to be able to meet their core requirements.
Lecture + Lab + Other: 3 + 0 + 0

NRM F656  Sustainable Livelihoods and Community Well-being
3 Credits
Offered As Demand Warrants
Review principles governing the sustainability of systems, cultural practices and behaviors that enhance or degrade sustainable livelihoods and community wellbeing. Emphasis is on historical context of sustainability, nature and magnitude of the social, economic and ecological dimensions of contemporary change, and "best practices" for communities to respond effectively to change.
Prerequisites: Graduate standing.
Cross-listed with CCS F656 and GEOG F656.
Lecture + Lab + Other: 3 + 0 + 0

NRM F660  Advanced Outdoor Recreation
3 Credits
Offered Fall Even-numbered Years
Evaluation of contemporary outdoor recreation management models and the linkage between management programming and visitor response. Development of a synthesized model and testing with contemporary problems.
Prerequisites: Graduate standing.
Lecture + Lab + Other: 3 + 0 + 0

NRM F666  Survey Research in Human Dimensions of Natural Resources
3 Credits
Offered Fall Even-Numbered Years
Social science concepts applied to survey-based human dimensions research. Survey research methods including operationalizing research questions into measurable variables, designing survey instruments, assessing reliability and validity, sampling and data analysis.
Prerequisites: Graduate standing.
Lecture + Lab + Other: 3 + 0 + 0

NRM F670  Biometeorology
3 Credits
Offered Fall Odd-numbered Years
Radiation and energy balance relationships for natural and modified surfaces; physical environment in relation to biology and ecology of plants and animals; implications for resource and environmental management.
Prerequisites: Biological or physical science background; graduate standing.
Lecture + Lab + Other: 3 + 0 + 0

NRM F672  Nutrient Cycling
3 Credits
Offered Spring Odd-numbered Years
Examination of physical, chemical and biological processes controlling nutrient element recycling, availability and retention in natural and managed ecosystems.
Prerequisites: CHEM F106X; NRM F375 or BIOL F371; NRM F380.
Lecture + Lab + Other: 3 + 0 + 0

NRM F685  Soil Microbiology and Biochemistry
3 Credits
Offered As Demand Warrants
Current topics in soil microbiology and biochemistry. Based on readings from the primary literature and discussions in class. Each student will be expected to lead at least one discussion, write a research proposal and present the proposal to class.
Prerequisites: At least one course in soil science; one course in microbiology.
Lecture + Lab + Other: 3 + 0 + 0
NRM F689  Alaska Soil Geography Field Trip
1 Credit
Offered Summer As Demand Warrants
Soil geography transect from Pacific (Anchorage) to Arctic (Deadhorse) coast. Hands-on experience describing and sampling soils, with emphasis on how a variety of ecological factors and climate affect soil formation and classification.
Prerequisites: NRM F380, or a course in soils.
Stacked with NRM F489.
Special Notes: Students must provide their own camp gear, be able to walk on uneven or rocky ground and be physically fit for fieldwork.
Lecture + Lab + Other: 1 + 0 + 0

NRM F692  Graduate Seminar
1-3 Credits
Topics in natural resources management and geography explored through readings, student presentations, group discussions and guest speakers.
Prerequisites: Graduate standing.
Cross-listed with GEOG F692.
Lecture + Lab + Other: 1-3 + 0 + 0

NRM F698  Non-thesis Research/Project
1-9 Credits
Lecture + Lab + Other: 0 + 0 + 0

NRM F699  Thesis
1-12 Credits
Lecture + Lab + Other: 0 + 0 + 0

NRM F699A  Thesis
1-12 Credits
Lecture + Lab + Other: 1-12 + 0 + 0

NRM F699B  Thesis
1-12 Credits
Lecture + Lab + Other: 1-12 + 0 + 0

NRM F699C  Thesis
1-12 Credits
Lecture + Lab + Other: 1-12 + 0 + 0