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PROGRAM/DEGREE REQUIREMENT CHANGE (MAJOR/MINOR)

SUBMITTED BY:

Department	Resources Management	College/School	SNRAS
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See <http://www.uaf.edu/uafgov/faculty/cd> for a complete description of the rules governing curriculum & course changes.

PROGRAM IDENTIFICATION:

DEGREE PROGRAM	Natural Resources Management
Degree Level: (i.e., Certificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)	BS

foundations of resource management issues, and have knowledge of methods to develop management plans and implement decisions.

B. CURRENT REQUIREMENTS AS IT APPEARS IN THE CATALOG:

NATURAL RESOURCES MANAGEMENT
 School of Natural Resources and Agriculture 7(NT)]TJ SciEMENT

The natural resources management forestry program is the only accredited four-year forestry program in Alaska.

Forestry

a. Complete the following:

BIOL F239—Introduction to Plant Biology (4)

or NRM F211—Introduction to Applied

Plant Science (3).....3 – 4

ECON F335O—Intermediate Natural Resource Economics.....3

GEOS F101X—The Dynamic Earth.....4

NRM F204—Public Lands Law and Policy.....3

NRM F251—Silvics and Dendrology.....4

NRM F290—Resource Management Issues at High Latitudes...2

NRM F338—Introduction to Geographic Information Systems.3

NRM F340—Natural Resources Measurement and Inventory...3

NRM F365—Principles of Outdoor Recreation Management....3

NRM F370—Introduction to Watershed Management.....3

NRM F430—Resource Management Planning.....3

NRM F450—Forest Management.....3

NRM F440—Silviculture.....3

NRM F452—Forest Health and Protection.....3

NRM F453—Harvesting and Utilization of Forest Products.....3

WLF F201—Wildlife Management Principles (3)

or FISH F401W,O/2—Fisheries Management (3).....3

b. Complete three of the following to total at least 8 credits:****

1. Complete at least one of the following non-measurements courses:

BIOL F331—Systematic Botany.....4

FIRE—Any course on wildland fire control/management.....3

GEOS F408—Photogeology.....2

NRM F277—Introduction to Conservation Biology.....3

NRM F300—Internship in Natural Resources

Management*****1 – 6

NRM F303X—Environmental Ethics and Actions*****3

NRM F312—Introduction to Range Management.....3

WLF F201—Wildlife Management Principles (3)

or FISH F401W,O/2—Fisheries Management (3).....3

2. Complete at least one of the following measurements

courses:

CE F112—Elementary Surveying.....3

GEOS F422—Geoscience Applications of Remote Sensing...3

NRM F341—GIS Analysis.....4

C. PROPOSED REQUIREMENTS AS IT WILL APPEAR IN THE CATALOG WITH THESE CHANGES:
(Underline new wording, strike through old wording, and use complete catalog format)

NATURAL RESOURCES MANAGEMENT

School of Natural Resources and Agricultural Sciences

907-474-7083

www.uaf.edu/snras/

B.S. Degree

Minimum Requirements for Degree: 130 credits

Natural resources management is making and implementing decisions to develop, maintain or protect ecosystems to meet human needs and values. The core natural resources management curriculum provides students with a broad education in the various natural resources and their related applied fields. Programs can be tailored to enhance a student's depth or breadth in a given field of interest. The program is designed for students desiring careers in resources management or in other fields requiring knowledge of resources management and students planning advanced study, as well as those wishing to be better informed citizens.

The B.S. degree has three concentrations: forestry; plant, animal, and soil sciences; and resources. The forestry concentration offers students the opportunity to focus on the multi-resource management of forests and associated ecosystems for the sustained production of goods and services and to prepare for forestry related employment. The natural resources management/forestry program is the only accredited four-year forestry program in Alaska.

The goals of UAF's forestry program are to produce graduates who are highly competitive in obtaining professional employment, who have the knowledge to perform well on the job and who are valued for work in Alaska and the circumpolar North; maintain close student interaction with faculty and provide opportunity for students to obtain practical professional experience as part of their education; and to prepare students for lifelong learning and responsible participation in decision-making about the use of natural resources.

The university provides students with a foundation in the biological, social and physical sciences and blend of classroom, laboratory and field work to develop skills for a career in forestry. The forestry program leads to a professional degree in forestry. The program is accredited by the Society of American Foresters (SAF).

The high latitude agriculture concentration offers opportunities for scientific study and education in areas such as field and greenhouse plant production, domestication and propagation of native plants, revegetation, domestic and native animal production, and agricultural and ecological aspects of soil science. The resources concentration emphasizes responsible stewardship in the management of multiple resources that occur in natural systems. Field and laboratory activities and applications of knowledge gained are stressed throughout the program. Internships and work-study arrangements are often available for qualified students.

The Humans and the Environment concentration focuses on human interactions with the environment and the balancing of uses needs and values regarding natural resources. H&E students will gain a solid foundation in the physical sciences relevant to resources management, but will be distinguished by a focus on social science coursework. Examples of such coursework include policy and law, planning, economics, and survey research methods. Students have the opportunity to integrate international study into the degree option. H&E graduates will have skills to identify differing social values, understand the policy and legal foundations of resource management issues, and have knowledge of methods to develop management plans and implement decisions.

Graduates will be well positioned for a variety of careers in public resource management agencies, tribal organizations, and private firms and non-profits.

State and federal agencies such as the Alaska Department of Natural Resources, Agricultural Research Service, U.S. Forest Service, Bureau of Land Management, Natural Resource Conservation Service and U.S. Fish and Wildlife Service contribute significantly to the instructional program by providing guest lecturers and internship and field work opportunities for students.

Major — B.S. Degree

Concentrations: Forestry; High Latitude Agriculture;

~~Resources~~ Humans and the Environment

1. Complete the general university requirements. (See page

or FISH F401W,O/2—Fisheries Management (3).....3

b. Complete three of the following to total at least 8 credits:****

1. Complete at least one of the following non-measurements courses:

BIOL F331—Systematic Botany.....4

FIRE—Any course on wildland fire control/management.....3

GEOS F408—Photogeology.....2

NRM F277—Introduction to Conservation Biology.....3

NRM F300—Internship in Natural Resources Management*****1 – 6

NRM F303X—Environmental Ethics and Actions*****3

NRM F312—Introduction to Range Management.....3

WLF F201—Wildlife Management Principles (3)

or FISH F401W,O/2—Fisheries Management (3).....3

2. Complete at least one of the following measurements courses:

CE F112—Elementary Surveying.....3

GEOS F422—Geoscience Applications of Remote Sensing...3

NRM F341—GIS Analysis.....4

STAT F401—Regression and Analysis of Variance.....4

STAT F402—Scientific Sampling.....3

* Student must earn a C grade or better in each course.

** Satisfies core natural science requirement.

*** Satisfies B.S. degree natural science requirement.

**** Courses other than those listed must be approved by student's advisor.

***** Must be forestry related.

***** If used to fulfill the baccalaureate core requirement for ethics/values and choices in the perspectives on the human condition, NRM F303X may not also count toward a natural resources management major. However, in this case, only two courses that total at least 5 credits are required

and Inventory.....3
NRM 370—Introduction to Watershed

AKNP151—Alaska Native Claims
Settlement Act.....3
AKNP 230—Federal Indian Law.....3
ANS 425—Federal Indian Law & Alaska
Natives (s).....3
HIST 115—Alaska, Land & Its People (s)..3
TM 120, Intro to Tribal Natural Resource
Management.....3
RD 255, Rural Alaska Land Issues (s).....3
RD 265—Perspectives on Subsistence in
Alaska.....3

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize program/degree change applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. If you drop a course, is it because the material is covered elsewhere? Use as much space as needed to fully justify the proposed change and explain what has been done to ensure that the quality of the program is not compromised as a result.

The Resources concentration of the NRM BS program has not been updated in many years. The revision presented here is intended to keep the concentration current with changes that have occurred in natural resources management related fields while maintaining the overall rigor of the degree concentration. It is also intended to accommodate planned growth in enrollment in the NRM BS program. The reorganization provides students both a breadth and

APPROVALS:

	Date	
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Signature, Chair,
Program/Department of:

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	Date	
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Signature, Chair, College/School
Curriculum Council for:

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	Date	
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Signature, Dean, College/School
of:

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ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

	Date	
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Signature, Chair, UAF Faculty Senate Curriculum
Review Committee

Date

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