Submit originals and one copy and electronic copy to Governance/Faculty Senate Office (email electronic copy to fysenat@uaf.edu)

PROGRAM/DEGREE REQUIREMENT CHANGE (MAJOR/MINOR)

SUBMITTED BY:

Department	Resources Management	College/School	SNRAS
Prepared by	Joshua Greenberg	Phone	474-7189
Email Contact	j.greenberg@alaska.edu	Faculty Contact	Joshua Greenberg

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 Ma	nagement
Degree Level: (i.e., Cer	tificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)	BS

A. CHANGE IN DEGREE REQUIREMENTS: (Brief statement of program/degree changes and objectives)

This is a revision to the Resources Concentration to the BS in Natural Resources Management degree. The concentration title and description have been revised to better reflect the objective of the degree concentration. The concentration requirements have been modified and reorganized. The reorganization reflects the focus of this concentration on the social science aspect of natural resource management. The objective of the degree concentration is to provide students the 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.

B. CURRENT REQUIREMENTS AS IT APPEARS IN THE CATALOG:

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; high latitude agriculture;

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 a 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. State and federal agencies such as the Alaska Department of Natural

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

- 1. Complete the general university requirements. (See page 122. As part of the core curriculum requirements, complete a MATH—Calculus course.)
- 2. Complete the B.S. degree requirements. (See page 127. As part of the B.S. degree requirements, complete STAT F200X*.)
- 3. Complete the following (major) requirements:*

5. Complete the following (major) requirements.
BIOL F115X—Fundamentals of Biology I**4
BIOL F116X—Fundamentals of Biology II**4
BIOL F271—Principles of Ecology4
CHEM F105X—General Chemistry***4
CHEM F106X—General Chemistry***4
ECON F235—Introduction to Natural Resource Economics3
NRM F101—Natural Resources Conservation and Policy3
NRM F106—Orientation to Natural Resource Management1
NRM F304O—Perspectives in Natural Resources Management.3
NRM F380W—Soils and the Environment3
NRM F405W—Senior Thesis in Natural Resources

Management I......2

Management II......2

4. Complete one of the following concentrations:*

NRM F406W—Senior Thesis in Natural Resources

Forestry

a. Complete the following:
BIOL F239—Introduction to Plant Biology (4)
or NRM F211—Introduction to Applied
Plant Science (3)3 – 4
ECON F3350—Intermediate Natural Resource Economics3
GEOS F101X—The Dynamic Earth4
NRM F204—Public Lands Law and Policy3
NRM F251—Silvics and Dendrology4
NRM F290—Resource Management Issues at High Latitudes2
NRM F338—Introduction to Geographic Information Systems.3
NRM F340—Natural Resources Measurement and Inventory3
NRM F365—Principles of Outdoor Recreation Management3
NRM F370—Introduction to Watershed Management3
NRM F430—Resource Management Planning3
NRM F450—Forest Management3
NRM F440—Silviculture3
NRM F452—Forest Health and Protection3
NRM F453—Harvesting and Utilization of Forest Products3
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 Botany4
FIRE—Any course on wildland fire control/management3
GEOS F408—Photogeology2
NRM F277—Introduction to Conservation Biology3
NRM F300—Internship in Natural Resources
Management**** 1 – 6
NRM F303X—Environmental Ethics and Actions*****3
NRM F312—Introduction to Range Management3
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 Surveying3
GEOS F422—Geoscience Applications of Remote Sensing3
NRM F341—GIS Analysis4
STAT F401—Regression and Analysis of Variance4
STAT F402—Scientific Sampling3
* 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
from this list, exclusive of NRM F303X
High Latitude Agriculture
a. Complete the following:
BIOL F331—Systematic Botany (4)
or BIOL F310—Animal Physiology (4)
or BIOL F317—Comparative Anatomy of Vertebrates (4)4

NRM F211—Introduction to Applied Plant Science3
NRM F290—Resource Management Issues at High Latitudes2
NRM F312—Range Management3
NRM F320—Animal Science3
NRM F480—Soil Management for Quality Conservation (3)
or NRM F485—Soil Biology* (3)3
or NRM F466—Environmental Soil Chemistry (3)
b. Complete at least 8 credits in biology, botany, physics,
chemistry, geosciences and/or mathematics, in addition to the
above basic courses. Courses must be approved for science
majors.
c. Complete at least 9 credits in natural resources management
electives:
NRM F102—Practicum in Natural Resources
Management $(1-2)$
and any other NRM course at the F200-level or above
that has not been used to meet other requirements.
NRM F204—Public Lands Law and Policy3
NRM F215—Plant Propagation3
NRM F251—Silvics and Dendrology4
NRM F312—Introduction to Range Management3
NRM F313—Introduction to Plant Pathology4
NRM F338—Introduction to Geographic Information Systems.3
NRM F340—Natural Resources Measurement and Inventory3
NRM F341—GIS Analysis4
NRM F370—Introduction to Watershed Management
NRM F404—Environmental Impact Statement Law3
NRM F412—Field Crop Production
NRM F480—Soil Management for Quality and
Conservation* (3)
or NRM F485—Soil Biology* (3) or NRM F466—Environmental Soil Chemistry* (3)3
d. Complete at least 12 credits beyond those taken to fulfill
categories above in a support field which is a group of courses
selected for its clear pertinence to a cohesive program.
Support fields may include but are not limited to: animal
science, chemistry, communications, education, engineering,
forestry, geography, marketing, natural resources management,
nutrition, plant science, rural development or soils. The
courses must be approved by the student's academic advisor
prior to attaining senior standing.
* The same course cannot be used to satisfy requirements in both sections
a and c.
Resources
a. Complete the following:
ECON F335O—Intermediate Natural Resource Economics3
GEOS F101X—The Dynamic Earth4
NRM F204—Public Lands Law and Policy3
NRM F251—Silvics and Dendrology4
NRM F290—Resource Management Issues at High Latitudes2
NRM F312—Introduction to Range Management (3)
or NRM F480—Soil Management for Quality and
Conservation (3)
NRM F338—Introduction to Geographic Information Systems.3 NRM F340—Natural Resources Measurement and Inventory3
TYRIVI I 340—Inatural resources incasurement and inventory3

NRM F365—Principles of Outdoor Recreation Management3
NRM F370—Introduction to Watershed Management3
NRM F430—Resource Management Planning3
WLF F201—Wildlife Management Principles (3)
or FISH F401W,O/2—Fisheries Management (3)3
b. Complete at least 9 credits from the humans and the
environmental electives category. Courses involve human
effects on the environment and its products through
management. Substitutions may be made only with the
permission of the student's academic advisor and the
department head.
ANTH F428—Ecological Anthropology and Regional
Sustainability
ECON F437W—Regional Economic Development3
FISH F261-F—Introduction to Seafood Science and Nutrition.3
FISH F401W,O/2—Fisheries Management
FIRE F256—Wildland Fire Planning and Multiple Use
Management
GEOG F427—Cold Lands
MIN F101—Minerals, Man and the Environment
MIN F400—Practical Engineering Report
MIN F407W—Mine Reclamation and Environmental
Management
NRM F277—Introduction to Conservation Biology3
NRM F300—Internship in Natural Resources Management3
NRM F312—Introduction to Range Management
NRM F404—Environmental Impact Statement Law
NRM/WLF F431—Wildlife Law and Policy
NRM F450—Forest Management
NRM F440—Silviculture
NRM F465—Outdoor Recreation Planning3
NRM F480—Soil Management for Quality and Conservation3
RD F255—Rural Alaska Land Issues
RD F265—Perspectives on Subsistence in Alaska3
RD F3500—Indigenous Knowledge and
Community Research
WLF F201—Wildlife Management Principles3
WLF F419O/2—Waterfowl and Wetlands Ecology and
Management4
c. Select at least 9 credits in an approved support field. Selections
may include courses listed within the humans and the
environmental elective category, and need not be limited
to those with NRM designators. Courses are selected for
their clear pertinence to a cohesive program and must be
approved by the student's academic advisor prior to attaining
senior standing. Examples include but are not limited to:
communications, data management, economics, marketing,
recreation or resources policy. Support fields may also include
subject areas in forest and plant, animal, and soil sciences.
5. Minimum credits required
Note: Courses required for the major may also be used to satisfy the general
university and B.S. degree requirements as appropriate.

C. PROPOSED REQUIREMENTS AS IT WILL APPEAR IN THE CATALOG WITH THESE CHANGES: (<u>Underline new wording strike through old wording</u> 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 a 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 122. As part of the core curriculum requirements, complete a MATH—Calculus course.) 2. Complete the B.S. degree requirements. (See page 127. As part of the B.S. degree requirements, complete STAT F200X*.) 3. Complete the following (major) requirements:* BIOL F115X—Fundamentals of Biology I**.....4 BIOL F116X—Fundamentals of Biology II**.....4 BIOL F271—Principles of Ecology......4 CHEM F105X—General Chemistry***.....4 CHEM F106X—General Chemistry***.....4 ECON F235—Introduction to Natural Resource Economics.....3 NRM F101—Natural Resources Conservation and Policy.......3 NRM F106—Orientation to Natural Resource Management.....1 NRM F304O—Perspectives in Natural Resources Management.3 NRM F405W—Senior Thesis in Natural Resources Management I......2 NRM F406W—Senior Thesis in Natural Resources 4. Complete one of the following concentrations:* Forestry a. Complete the following: BIOL F239—Introduction to Plant Biology (4) or NRM F211—Introduction to Applied ECON F3350—Intermediate Natural Resource Economics.....3 GEOS F101X—The Dynamic Earth.....4 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 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 Botany4
FIRE—Any course on wildland fire control/management3
GEOS F408—Photogeology2
NRM F277—Introduction to Conservation Biology3
NRM F300—Internship in Natural Resources
Management*****1 – 6
NRM F303X—Environmental Ethics and Actions*****3
NRM F312—Introduction to Range Management3
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 Surveying3
GEOS F422—Geoscience Applications of Remote Sensing3
NRM F341—GIS Analysis4
STAT F401—Regression and Analysis of Variance4
STAT F402—Scientific Sampling3
* 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
from this list, exclusive of NRM F303X
High Latitude Agriculture
a. Complete the following:
BIOL F331—Systematic Botany (4)
or BIOL F310—Animal Physiology (4)
or BIOL F317—Comparative Anatomy of Vertebrates (4)4
NRM F211—Introduction to Applied Plant Science3
NRM F290—Resource Management Issues at High Latitudes2
NRM F312—Range Management3
NRM F320—Animal Science
NRM F480—Soil Management for Quality Conservation (3)
or NRM F485—Soil Biology* (3)
or NRM F466—Environmental Soil Chemistry (3)
b. Complete at least 8 credits in biology, botany, physics,
chemistry, geosciences and/or mathematics, in addition to the
above basic courses. Courses must be approved for science
majors.
c. Complete at least 9 credits in natural resources management electives:
NRM F102—Practicum in Natural Resources
Management $(1-2)$
and any other NRM course at the F200-level or above
that has not been used to meet other requirements.
NRM F204—Public Lands Law and Policy
NRM F215—Plant Propagation3

NRM F251—Silvics and Dendrology4
NRM F312—Introduction to Range Management3
NRM F313—Introduction to Plant Pathology4
NRM F338—Introduction to Geographic Information Systems.3
NRM F340—Natural Resources Measurement and Inventory3
NRM F341—GIS Analysis4
NRM F370—Introduction to Watershed Management3
NRM F404—Environmental Impact Statement Law
NRM F412—Field Crop Production
NRM F480—Soil Management for Quality and
Conservation* (3)
or NRM F485—Soil Biology* (3)
or NRM F466—Environmental Soil Chemistry* (3)3
d. Complete at least 12 credits beyond those taken to fulfill categories above in a support field which is a group of courses
selected for its clear pertinence to a cohesive program.
Support fields may include but are not limited to: animal
science, chemistry, communications, education, engineering,
forestry, geography, marketing, natural resources management,
nutrition, plant science, rural development or soils. The
courses must be approved by the student's academic advisor
prior to attaining senior standing.
* The same course cannot be used to satisfy requirements in both sections
a and c.
Resources Humans and the Environment
a. Complete the following:
ECON F3350 Intermediate Natural Resource Economics3
GEOS F101X The Dynamic Earth4
NRM F204 Public Lands Law and Policy3
NRM F251 Silvics and Dendrology4
NRM F290 Resource Management Issues at High Latitudes2
NRM F312 Introduction to Range Management (3)
or NRM F480 Soil Management for Quality and
Conservation (3)3
NRM F338 Introduction to Geographic Information Systems.3
NRM F340 Natural Resources Measurement and Inventory3
NRM F365 Principles of Outdoor Recreation Management3
NRM F370 Introduction to Watershed Management3
NRM F430 Resource Management Planning3
WLF F201 Wildlife Management Principles (3)
or FISH F401W,O/2 Fisheries Management (3)3 b. Complete at least 9 credits from the humans and the
<u> </u>
environmental electives category. Courses involve human effects on the environment and its products through
management. Substitutions may be made only with the
permission of the student's academic advisor and the
department head.
ANTH F428 Ecological Anthropology and Regional
Sustainability3
ECON F437W Regional Economic Development3
FISH F261 F Introduction to Seafood Science and Nutrition.3
FISH F401W,O/2 Fisheries Management3
FIRE F256 Wildland Fire Planning and Multiple Use
Management3
GEOG F427 Cold Lands3

MIN F101 Minerals, Man and the Environment3
MIN F400 Practical Engineering Report1
MIN F407W Mine Reclamation and Environmental
Management3
NRM F277 Introduction to Conservation Biology3
NRM F300 Internship in Natural Resources Management3
NRM F312 Introduction to Range Management3
NRM F404 Environmental Impact Statement Law3
NRM/WLF F431 Wildlife Law and Policy3
NRM F450 Forest Management3
NRM F440 Silviculture3
NRM F465 Outdoor Recreation Planning
NRM F480 Soil Management for Quality and Conservation3
RD F265 Rural Alaska Land Issues
RD F2500 Indicators Visualistas and
RD F3500 Indigenous Knowledge and
Community Research3 WLF F201 Wildlife Management Principles3
WLF F419O/2 Waterfowl and Wetlands Ecology and
Management
c. Select at least 9 credits in an approved support field. Selections
may include courses listed within the humans and the
environmental elective category, and need not be limited
to those with NRM designators. Courses are selected for
their clear pertinence to a cohesive program and must be
approved by the student's academic advisor prior to attaining
senior standing. Examples include but are not limited to:
communications, data management, economics, marketing,
recreation or resources policy. Support fields may also include
subject areas in forest and plant, animal, and soil sciences.
a. Human Dimensions Courses: complete all courses,
24 credits
24 credits
24 credits NRM 101—Natural Resource Conservation
24 credits NRM 101—Natural Resource Conservation and Policy
NRM 101—Natural Resource Conservation and Policy
24 credits NRM 101—Natural Resource Conservation and Policy
NRM 101—Natural Resource Conservation and Policy
NRM 101—Natural Resource Conservation and Policy
24 credits NRM 101—Natural Resource Conservation and Policy
24 credits NRM 101—Natural Resource Conservation and Policy
NRM 101—Natural Resource Conservation and Policy
24 credits NRM 101—Natural Resource Conservation and Policy
24 credits NRM 101—Natural Resource Conservation and Policy
24 credits NRM 101—Natural Resource Conservation and Policy
24 credits NRM 101—Natural Resource Conservation and Policy
24 credits NRM 101—Natural Resource Conservation and Policy
NRM 101—Natural Resource Conservation
NRM 101—Natural Resource Conservation and Policy
NRM 101—Natural Resource Conservation
NRM 101—Natural Resource Conservation and Policy
NRM 101—Natural Resource Conservation and Policy
NRM 101—Natural Resource Conservation and Policy

c. Applied Experiential Courses: complete 2 credits minimum

NRM 290—Resource Management Issues at

High Latitudes......2

NRM 300—Internship in Natural Resources

Management and Geography (H).1-6

*Courses taken abroad may be applied toward this requirement with departmental approval

d. Skills Building: complete 9 credits in a single field of study

Skills building provides depth of study in fields employed in Humans and the Environment related careers. Courses to be determined by students in consultation with their advisor and approval of department head.

Examples of Skills Building fields:

- Forestry
- Agriculture
- Law Enforcement
- Computer application
- GIS/Remote Sensing
- Fire Science/Haz mat
- Business
- Statistics
- Aviation
- Language
- Fisheries management
- Wildlife management
- <u>Curation</u>
- <u>Art</u>
- Other

e. Electives in Humans and the Environment (breadth): complete 15 credits

Electives in Human and the Environment provide exposure to a breadth of opic Areas relevant to understanding human interaction with the natural environment. Nine credits must be at the 300 level or above.

Students are required to complete at least one 3 credit course from 3 separate topic areas in meeting the 15 credit requirement.

Topics:

Alaska and Native Alaskans

Parks and Wilderness

Law and Politics

Energy and Minerals

Environmental Issues

	5. Minimum credits required
L	
	ESTIMATED IMPACT HAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.
No im	o new money is requested. There is one new course, which will not require classroom space. No expected apact to faculty. The new course is an extension of an existing courses. Internship Abroad in NRM (3xx) is extension of Internship in Natural Resource Management and Geography (NRM 300).
E. 1	IMPACTS ON PROGRAMS/DEPTS:
	What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)
	The Resources Management Department has had oversight of the Resource Concentration of the NRM BS degree. The SNRAS is responsible for the NRM BS program. The NRM core requirements are not changed by this revision to the Resource Concentration. No department or program outside of the SNRAS and the NRM BS will be affected.
7. 1	IF MAJOR CHANGE - ASSESSMENT OF THE PROGRAM:
	Description of the student learning outcomes assessment process.)
	Not a major change

A list of approved classes for each topic area is available from the department.

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 depth of knowledge in areas relevant to natural resources management, with a focus on the human dimension. The NRM major requirements are unchanged by this revision. Accordingly, the Forestry concentration and the High Latitude Agriculture concentration are unchanged.

The changes to Humans and the Environment degree concentration are as follows. The requirements of the degree concentration are structured under revised category headings that provide a clear rationale for the degree concentration. The 'Resources Management' category provides students flexibility in the specific courses they take based on their interests. NRM 312-Intro to Range Management, NRM 340-Natural Resources Measurement and Inventory, NRM 370—Introduction to Watershed Management, and NRM 480—Soils Management for Quality and Conservation that are currently required become optional courses in the revised degree concentration. The required courses under the 'Human Dimensions' category in the revised degree concentration are all required under the current degree concentration. The 'Applied Experiential' category provides students several choices to gain experienced based understanding of human interaction with the natural environment. NRM 290—Resource Management Issues at High Latitudes, currently a required course, becomes an optional course. NRM 300-Internship in Natural Resources Management and Geography is more prominently featured in the degree concentration. The internship offering is extended to include exposure to natural resource management in a foreign settings through the new course Internship NRM 3xx—Internship Abroad in NRM. The 'Support Field' category in the current degree concentration is re-titled 'Skills in the Field.' This category accommodates student exploration of study in fields employed in Humans and the Environment related careers. Examples of the 'Skill and the Fields' topics are now provided in the degree concentration description. Finally, the 'Humans and the Environmental Electives' category in the current degree concentration has been re-titled 'Electives in Humans and the Environment' and has been reorganized to assure student have exposure to a breadth of current topics relevant to understanding human interaction with the natural environment. The number of credits in this category has been increased from 9 to 15 so that student may also explore specific topics in greater detail. The list of elective courses included in this category has been updated based on current University course offerings and based on the contribution of courses to specific topic areas.

APPROVALS:	
	Date
Signature, Chair, Program/Department of:	
	Date
Signature, Chair, College/School Curriculum Council for:	•
	Date
Signature, Dean, College/School of:	