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	i.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:

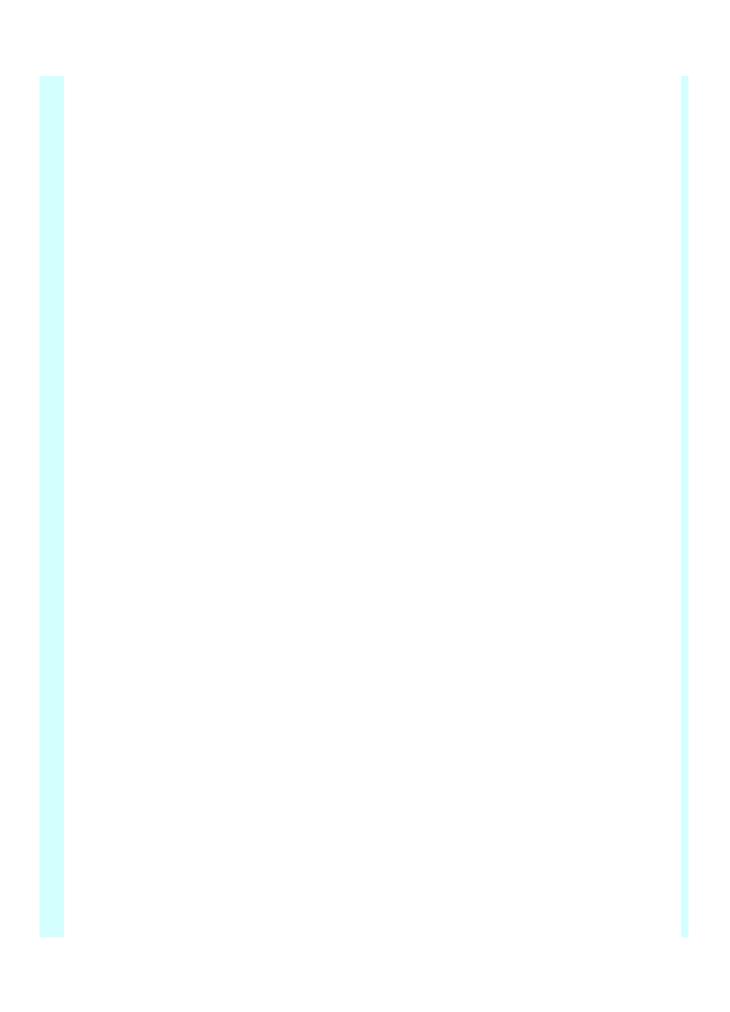
DEGREE PROGRAM	Natural Resources Management		
Degree Level: (i.e., Certificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)		BS	

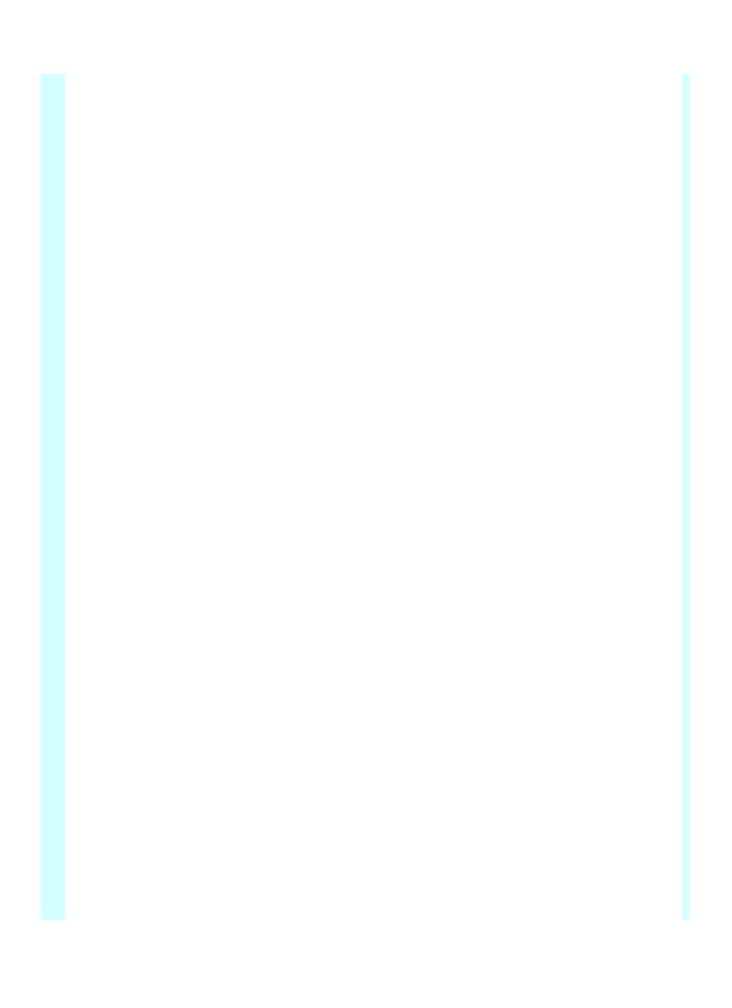
foundations of resource management issues, and haveddge of methods to develop management plans and implement decisions.

B. CURRENT REQUIREMENTS AS ITAPPEARS IN THE CATALOG:

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

The natural resources managetr/fenestry program is the only accredited four-year forestprogram in Alaska.





C. PROPOSED REQUIREMENTS AS IT WILL APPAR IN THE CATALOG WITH THESE CHANGES: (<u>Underline new wordingstrike through old wording</u> 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 ecosystem the sustained production of goods and services and to prepare for forestry related employment. The natural resources managet/ferestry program is the only accredited four-year forestprogram 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 experice 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 lend 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 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 aspect 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 natsocal roses. 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 not resource management issues, and have knowledge of methods without management plans and implement decisions.

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

State and federal agencies suclthas Alaska Department of Natural Resources, Agricultural Research Gee, 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.

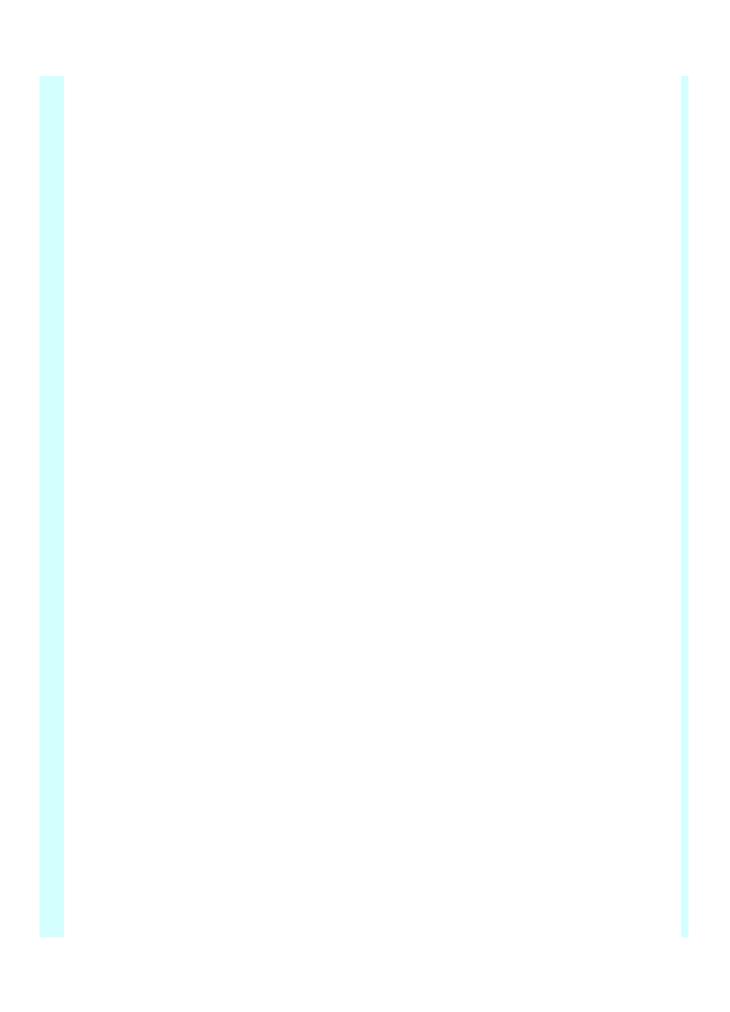
Major — B.S. Degree

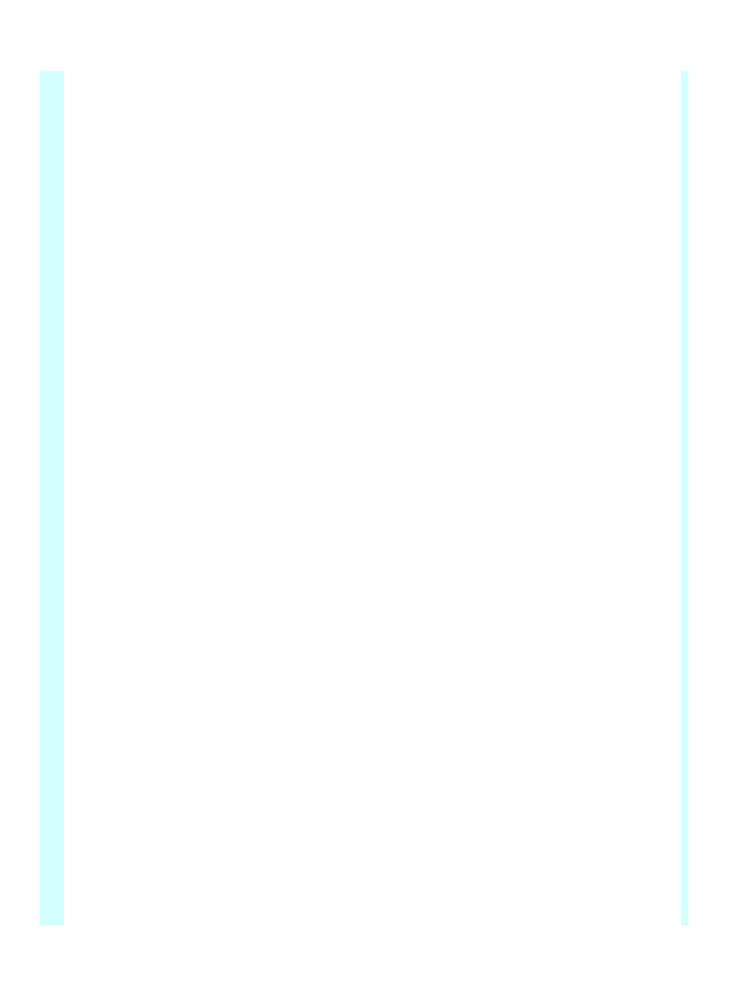
Concentrations: Forestry; High Latitude Agriculture;

ResourcesHumans and the Environment

1. Complete the general university requirements. (See page

or FISH F401W,O/2—Fisheries Management (3)
Complete at least one of the following non-measurements
courses:
BIOL F331—Systematic Botany4
FIRE—Any course on wildlandire control/management3
GEOS F408—Photogeology2
NRM F277—Introduction to Coresvation 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/value.
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
in mis case, only into comises mai total at teast 5 creatis are required





and Inventor	y		<u></u> 3
NRM 370—Introd	duction to	Watersh	ed

AKNP151—Alaska Native Claims
Settlement Act3
AKNP 230—Federal Idian Law3
ANS 425—Federal Indian Law & Alaska
<u>Natives (s)</u> 3
HIST 115—Alaska, Land & Its People (s)3
TM 120, Intro to Tribal Natural Resource
Management
RD 255, Rural Alaska Land Issues (s)3
RD 265—Perspectivesn 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 currentowishinges 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	
Signature, Chair, Program/Department of:			
		Date	
Signature, Chair, College/School Curriculum Council for:			
		Date	
Signature, Dean, College/School of:			
ALL SIGNATURES MUST BE OBTAINED P	RIOR TO SUBMISSION T	O THE G	OVERNANCE OFFICE
		Date	
Signature, Chair, UAF Faculty Senate Control Review Committee	riculum		