



Board of Regents Program Action Request
Proposal to Add or Change a Program of Study
University of Alaska

5th year after program change approval for a baccalaureate or doctoral degree program

4. Funds currently committed to the program 1

Year 1: 7

Year 2: 15

Year 3: 30

Year 4: 45

Page number of attached summary where demand for this program is discussed:

17-18

10. Number of new TA or faculty hires anticipated (or number of positions eliminated if a program discontinuation):

11. Number² of TAs or faculty to be reassigned:

Graduate TA

Graduate TA

Adjunct
Term
Tenure track

Adjunct
Term
Tenure track

Former assignment of any reassigned faculty:

12. Other programs affected by the proposed action, including those at other campuses (please list):

qvost
12307C884A7

Date:

Consensus support of AC

Recommend approval by VPASR

Date:

Recommend disapproval by VPASR

Date:

²Not 5TE (full-time equivalent). For example, if a faculty member will be reassigned from another program, but his/her original program will hire a replacement, there is

Motion to Create a PhD in Earth Systems Science

MOTION:

The UAF Faculty Senate moves to approve a new PhD in Earth Systems Science, housed in the College of Natural Science and Mathematics.

Earth System Science (ESS) is a multidisciplinary degree program that provides the option for

[REDACTED]

Atmospheric and Climate Sciences, Cryosphere, Solid Earth Geophysics, Geoscience, Geospatial Science. The ESS program involves faculty participation from six departments

[REDACTED]

Motion 2022-266-3

EFFECTIVE:

Immediately upon Chancellor approval or acknowledgement.

DocuSigned by:

Arauc Chowdhury

13EE819B32A0408

The Chancellor:

X

Approves

Vetoes

Acknowledges

October 11, 2022

Date:

Daniel M. White

Daniel M. White, UAF Chancellor

Overview

- 9. 01/12/22 11:31 am
Kinchel Doerner
(kdoerner2):
Approved for MT
Dean
- 10. 01/12/22 2:56 pm
Ashley Lindsoe
(aclindsoe):
Approved for

Faculty Senate

- Coordinator
- 11. 03/23/22 9:21 pm
Jennifer Carroll
(jicarroll): Approved
for Graduate
Curriculum
Committee Chair
- 12. 06/16/22 10:29 am
Ashley Lindsoe
(aclindsoe):
Rollback to

Curriculum
Committee Chair for
Faculty Senate

- 13. 09/23/22 12:52 pm
Syndonia Bret Harte
(msbretharte):
Approved for
Graduate
Curriculum
Committee Chair

SCIENCE

ATM F625 y y BY

ATM F626 [redacted] d

ATM F680

requires 18 thesis credits.

2

[redacted]

[redacted]

FISH F613 Human-environment Research Methods
NRM F630 Resource Management Planning

STO F601 Communicating Science

_COSYSTEMS

BIOL F669
BIOL F673

Complete the following:

GEOS F631 Foundations of Geophysics 4

One course from the B-list 3

Complete 2 of the following: 6

GEOS F615 Sea Ice

GEOS F616 Permafrost

GEOS F617 Glaciers

GEOS F618

geospatial science Ice Physics

Fall Credits

NRM F647 Sustainability in the Changing North 3
FISH F613 Human-environment Research Methods 3
Credits 6

Spring
CCS F617 Traditional Ecological Knowledge 3

ACNS F662 Alaska Government and Politics 3
Credits 6

Second Year

Fall
NRM F613 Resilience Internship 2
or CCS F613 or Alaska Standards for Culturally Responsive Schools
FISH F611 Human Dimensions of Environmental Systems 3
Credits 5

Spring
ACNS F662 Alaska Government and Politics 3
Credits 3

Third Year

Fall

NRM F654 Sustainable Livelihoods and Community We 3

Program Goals

Goals of this program in relation to the department and college

The National Academy of Sciences recently published a 124-page report entitled "Next Generation Earth

Systems Science at the National Science Foundation" This timely report provides formal statements that

support our goal to establish an Earth System Science (ESS) graduate degree program at UAF. Among the six "key characteristics needed for next-generation Earth Systems Science at NSF" is the following:

"Educate and support a workforce with the skills and knowledge to effectively identify, conduct, and

The primary objective of the ESE degree program is to establish a curriculum that:

1. connects the study of the Earth system with emphasis on the geologic sciences

Duties

Ken Tang

Uma Bhatt

Javier Fochesatto

FAC

David Fee

Carl Topp

Mathew Sturm

FAC

concentration.

Research faculty for cryosphere concentration.

faculty

FAC

Research faculty for cryosphere concentration.

faculty

Martin Truffer

FAC

Teaching faculty for cryosphere concentration.

faculty

within the UAF

practice is common at wealthier institutions in the Lower 48.) This has been seen as an excellent investment, as it has helped attract students who were deliberating between UAF and other competitive schools. Students who visit Fairbanks and UAF seem to have positive experiences, and therefore we would like to pursue this level of recruitment.

Several recruitment-related items were laid out in a Strategic Enrollment Planning proposal submitted in February 2022.

Sustainability plans,
to include grants,
donations,
development funds

etc.

