



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

1a. UA University UAF	1b. School or College College of Engineering and Mines	1c. Department or Program Arctic Engineering
--------------------------	--	---

2. Complete Program Title Master of Science in Arctic Engineering

3. Type of Program

Undergraduate Certificate
 Associate
 Baccalaureate
 Post-Baccalaureate Certificate
 Master's
 Graduate Certificate
 Doctorate

4. Type of Action	5. Implementation date (semester, year)
<input type="checkbox"/> Add <input type="checkbox"/> Change <input checked="" type="checkbox"/> Discontinue	<input type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Summer Year 2019

6. Projected Revenue and Expenditure Summary (not required if the requested action is discontinuation). Provide information for the 5th year after program change approval if a baccalaureate or doctoral degree program; for the 3rd year after program approval if a master's or associate degree program; or for the 2nd year after program approval if a graduate or undergraduate certificate. If information is provided for another year, specify (1st) and explain in the program summary attached. Note that revenues and expenditures are not always entirely new; some may be current (see 7d.)

Projected Annual Revenues in FY		Projected Annual Expenditures in FY	
Unrestricted		Salaries & benefits (faculty and staff)	\$
General Fund	\$	Other (commodities, services, etc.)	\$
Student Tuition & Fees	\$	TOTAL EXPENDITURES	\$
Indirect Cost Recovery	\$	One-time Expenditures to Initiate Program (if >\$250,000)	
TVEP or Other (specify):	\$	(These are costs in addition to the annual costs, above.)	
Restricted		Year 1	\$
Federal Receipts	\$	Year 2	\$
TVEP or Other (specify):	\$	Year 3	\$
TOTAL REVENUES	\$	Year 4	\$

Page # of attached summary where the budget is discussed, including initial phase-in:

7. Budget Status. Items a., b., and c. indicate the source(s) of the general fund revenue specified in item 6. If any grants or contracts will supply revenue needed by the program indicate amount anticipated and expiration date, if applicable.

Revenue source	Continuing	One-time
a. In current legislative budget request	\$0	\$0
b. Additional appropriation required	\$0	\$0
c. Funded through new internal UA university redistribution	\$0	\$0
d. Funds already committed to the program by the UA university ¹	\$0	\$0
e. Funded all or in part by external funds, expiration date 0	\$0	\$0
f. Other funding source (specify type): 0	\$0	\$0

8. Facilities. New or substantially (>\$25,000 cost) renovated facilities will be required.
 Yes
 No

If yes, discuss the extent, probable cost, and anticipated funding source(s), in addition to those listed in sections 6 and 7 above.

9. Projected Enrollments (headcount of majors). If this is a program discontinuation request, project the teach-out enrollments.

Year 1: 1	Year 2: 1	Year 3: 0	Year 4: 0
-----------	-----------	-----------	-----------

Page number of attached summary where demand for this program is discussed: 1

¹Sometimes the courses required by a new degree or certificate program are already being taught by a UA university, e.g., as a minor requirement. Similarly, other program needs like equipment may already be owned. 100% of the value is indicated even though the course or other resource may be shared.

10. Number² of new TA or faculty hires anticipated (or number of positions eliminated if a program discontinuation):

Graduate TA	0
Adjunct	0
Term	0
Tenure track	0

11. Number² of TAs or faculty to be reassigned:

Graduate TA	0
Adjunct	0
Term	0
Tenure track	0

Former assignment of any reassigned faculty: N/A
For more information see page 1 of the attached summary.

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

Program Affected	Anticipated Effect
N/A	

Page number of attached summary where effects on other programs are discussed:

13. Specialized accreditation or other external program certification needed or anticipated. List all that apply or 'none': none

14. Aligns with University or campus mission, goals, core themes, and objectives (list): N/A

Page in attached summary where alignment is discussed: N/A

15. Aligns with Shaping Alaska's Future themes: Accountability to the People of Alaska

Page in attached summary where alignment is discussed: 1

16. State needs met by this program (list): The State need for engineers with expertise in Arctic Engineering will continue to be met.

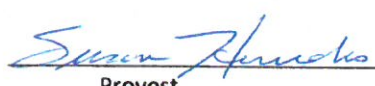
Page in the attached summary where the state needs to be met are discussed: 1

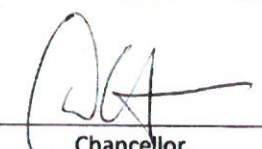
17. Program is initially planned to be: (check all that apply)

- Available to students attending classes at campus(es).
- Available to students via e-Learning
- Partially available to students via e-Learning

Page # in attached summary where e-Learning is discussed: N/A

Submitted by the University of Alaska Fairbanks.

 , 8/18/17
Provost Date

 , 8/8/17
Chancellor Date

Consensus support of AC Not supported by AC

Recommend approval by VPAAR
 Recommend disapproval by VPAAR

 , 8/18/17
UA Vice President for Academic Affairs & Research Date

²Net FTE (full-time equivalents). For example, if a faculty member will be reassigned from another program, but his/her original program will hire a replacement, there is one net new faculty member. Use fractions if appropriate. Graduate TAs are normally 0.5 FTE. The numbers should be consistent with the revenue/expenditure information provided.

Attachments: Summary of Degree or Certificate Program Proposal Other (optional)



**Discontinuation of Low-enrollment Master's Programs
in the College of Engineering and Mines**

The University of Alaska of Alaska Fairbanks requests that the UA Board of Regents discontinues the following low enrollment master's degree programs:

- Arctic Engineering
- Engineering Management
- Science Management
- Environmental Engineering
- Mineral Preparation Engineering
- Software Engineering

Collectively, these are specialized degree programs that have not attracted a significant number of students in the past decade. Admission to these programs was suspended between one and three years ago, in the course of a series of special program reviews of low-enrollment programs being carried out by UAF. Mineral Preparation Engineering and Software Engineering have no enrolled students. Arctic Engineering, Science Management, and Engineering Management have one student each that has enrolled in the minimum of six credits in FY17 to remain an active graduate student. Environmental Engineering has three students. Nearly all of these remaining students will probably complete within the next year, but delayed implementation of the program discontinuations is requested to allow them ample time to finish.

Factors leading to the lack of or loss of student interest in these programs includes the fact that students appear to prefer degrees with broader vs. narrower scope, e.g., Civil Engineering over Arctic or Environmental Engineering. Similarly, students appear to prefer the MBA program to either Science Management or Engineering Management, particularly since the UAF MBA program has now developed a pathway for students without undergraduate degrees in business. In the case of Mineral Preparation Engineering and Software Engineering, all of the associated faculty retired or resigned within the past five years, and were not replaced owing to the low demand for the programs. Arctic and Environmental Engineering and Engineering and Science Management faculty continue to teach within the Civil Engineering program.

The College of Engineering and Mines (CEM) still offers many graduate programs, i.e., a Ph.D. in Engineering, Master's in Civil, Electrical, Geological, Mechanical, Mining, and Petroleum Engineering, and Master's in Computer Science and Environmental Quality Science. Students with interests in Environmental Engineering and Arctic Engineering can still take relevant courses and carry out related research through the MS in Civil Engineering program, and in the case of Arctic Engineering, the MS in Geological Engineering program. The proposed discontinuations will not significantly affect either graduate student enrollment or research in CEM.

**Program Discontinuation Motions
September 2017 Meeting of the UA Board of Regents**

Arctic Engineering

The Board of Regents approves the discontinuation of the Master's of Science in Arctic Engineering at the University of Alaska Fairbanks, effective upon completion of the teach out, set for the end of spring semester 2019. This motion is effective September 14, 2017.

Engineering Management

The Board of Regents approves the discontinuation of the Master's of Science in Engineering Management at the University of Alaska Fairbanks, effective upon completion of the teach out, set for the end of spring semester 2020. This motion is effective September 14, 2017.

Science Management

The Board of Regents approves the discontinuation of the Master's of Science in Science Management at the University of Alaska Fairbanks, effective upon completion of the teach out, set for the end of spring semester 2019. This motion is effective September 14, 2017.

Environmental Engineering

The Board of Regents approves the discontinuation of the Master's of Science in Environmental Engineering at the University of Alaska Fairbanks effective upon completion of the teach out, set for the end of spring semester 2020. This motion is effective September 14, 2017.

Mineral Preparation Engineering

The Board of Regents approves the discontinuation of the Master's of Science in Mineral Preparation Engineering at the University of Alaska Fairbanks, effective spring semester 2018. This motion is effective September 14, 2017.

Software Engineering

The Board of Regents approves the discontinuation of the Master's of Software Engineering at the University of Alaska Fairbanks, effective spring semester 2018. This motion is effective September 14, 2017.