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

	PROGRAM/DEGREE REQU	UIREMENT CHANGE (MA	JOR/MINOR)			
SUBMITTED BY:		10740 A 278 S 1046 B				
Department	MSL	College/School	SFOS			
Prepared by	Ana M. Aguilar-Islas	Phone	907 474 1524			
Email Contact	amaguilarislas@alaska.edu	Faculty Contact	Ana M. Aguilar-Islas			
	ww.uaf.edu/uafgov/faculty/		scription of the rules			
governing cu.	rriculum & course changes.					
PROGRAM IDE	NTIFICATION:					
			A STORE WELL THE MET STORE WHEN STORE THE STORE ST			
DEGREE PROGE	RAM	Minor in Marine Scien	nce			
	: (i.e., Certificate, A.A.	., A.A.S., B.A.,	B.A, B.S			
B.S., M.A.,	M.S., Ph.D.)					
are intended to minor. The fol 1) Reallocation 2) Removal of (i.e. FISH 30 3) Inclusion of (i.e. CHEM 4) Inclusion of	o add flexibility to the elective portio llowing changes are requested: n of elective credits from 6 (MSL onl	on of the program. Changes and by) and 2 (MSL and/or other of the post of the	lepartments) departments)			
. CURRENT RE	EQUIREMENTS AS IT APPEARS	IN THE CATALOG:				
1. Complete th	1. Complete the following:					
	e following:					
	oduction to Marine Science I					
	_					

1. Complete the following:
MSL 211 – Introduction to Marine Science I
MSL 212 – Introduction to Marine Science II
MSL 213L—Marine Science Laboratory
2. Complete 6 credits from the following:
MSL 317 – Introduction to Marine Mammal Biology
MSL 330 —The Dynamic Alaskan Coastline
MSL 403— Estuaries Oceanography
MSL 412 —Early Life Histories of Marine Invertebrates
MSL 431 – Polar Marine Science
MSL 449 – Biological Oceanography
MSL 463 – Chemical Coastal Processes
3. Complete 2 additional credits from the following:
Marine Science and Limnology
MSL 220 – Scientific Diving
MSL 317 – Introduction to Marine Mammal Biology
MSL 330 —The Dynamic Alaskan Coastline
MSL 403— Estuaries Oceanography
MSL 412 — Early Life Histories of Marine Invertebrates
MSL 421 – Field Course in Subtidal Studies
MSL 431 – Polar Marine Science
MSL 449 – Biological Oceanography
MSL 450 – Marine Biology and Ecology Field Course
MSL 456 – Kelp Forest Ecology
MSL 463 – Chemical Coastal Processes
MSL 497 − Marine Field Experience (Independent Study)
Fisheries
FISH 288/BIOL 288 – Marine and Freshwater Fishes of Alaska
FISH 301—Biology of Fishes

FISH 425 – Fish Ecology	
FISH 440—Oceanography for Fisheries	
Biology and Wildlife	
BIOL 305 – Invertebrate Zoology	
BIOL 473 – Limnology	
Economics	
ECON 235 – Introduction to Natural Resource Economics	0.000
4. Minimum credits required	30

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)

	(Underline new wording strike through old wording and use complete catalog format)	
	1. Complete the following:	٦
	MSL 211 – Introduction to Marine Science I	
	MSL 212 – Introduction to Marine Science II	
	MSL 213L—Marine Science Laboratory	١
	2. Complete 6 3 credits from the following:	ı
	MSL 317 – Introduction to Marine Mammal Biology	۱
	MSL 330 — The Dynamic Alaskan Coastline	١
	MSL 403— Estuaries Oceanography	١
	MSL 412 —Early Life Histories of Marine Invertebrates	١
	MSL 431 – Polar Marine Science	١
	MSL 449 – Biological Oceanography	١
	MSL 463 – Chemical Coastal Processes	١
	3. Complete 2 5 additional credits from the following:	١
	Marine Science and Limnology	١
	MSL 220 – Scientific Diving	ı
	MSL 317 – Introduction to Marine Mammal Biology	ı
	MSL 330 —The Dynamic Alaskan Coastline	ı
	MSL 403— Estuaries Oceanography	ı
	MSL 412 — Early Life Histories of Marine Invertebrates	ı
	MSL 420 Introduction to Physical Oceanography* MSL F419 - Concepts i	ᆔ
	MSL 421 – Field Course in Subtidal Studies	п
	MSL 431 - Polar Marine Science 3 Physical Oceanography	۱
	MSL 440 – Oceanography for Fisheries	
	MSL 449 – Biological Oceanography	
	MSL 450 – Marine Biology and Ecology Field Course 4	
	MSL 456 – Kelp Forest Ecology	
	MSL 461- Chemical Oceanography	
	MSL 463 – Chemical Coastal Processes	
	MSL 492 – IMS Seminar	
	MSL 497 – Marine Field Experience (Independent Study)	
	Fisheries	
	FISH 288/BIOL 288 – Marine and Freshwater Fishes of Alaska	
	FISH 301—Biology of Fishes	
	FISH 425 – Fish Ecology	
	FISH 440—Oceanography for Fisheries	
	FISH/BIOL 427 — Ichthyology	
	Biology and Wildlife Biology and Wildlife	
	BIOL 305 – Invertebrate Zoology	
	BIOL 473 – Limnology	
	Chemistry	
	CHEM 202 – Basic Inorganic Chemistry	
	CHEM 212 – Chemical Equilibrium and Analysis	
	Economics	
	ECON 235 – Introduction to Natural Resource Economics	
	Geology and Geophysics	
	GEOS/GEOG 222 – Fundamentals of Geospatial Sciences	
	Statistics	
	STAT 200X – Elementary Probability and Statistics	
	4. Minimum credits required	
NEW PARK		18

^{*} Included in conjunction with this change>THIS NOTATION NOT FOR CATALOG

D. ESTIMATED IMPACT

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

The impact of the proposed action on UAF budget is expected to be positive, as the added flexibility is expected to increase the number of students enrolling in additional credits to complete this minor. Facilities/space and faculty are not expected to be negatively impacted by the requested change to add electives from other departments, because these courses are already being offered and the additional enrolment is unlikely to be taxing. The proposed MSL course additions are also not expected to negatively impact facilities/ space and faculty. For specific course impact see attached course paperwork.

E. 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 selection of course electives from other departments (CHEM, GEOS, FISH, STAT) was determined after email communication with the head of each department. Negative impacts were not identified for these departments. Potential increase in enrolment for these courses would be a positive impact of the proposed action.

F. IF MAJOR CHANGE - ASSESSMENT OF THE PROGRAM:

Description of the student learning outcomes assessment process.)

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 requested changes to increase the offered electives and redistribute course requirements are in response to feedback from students enrolled or interested in the minor. Several students have expressed concern about the little flexibility offered by the structure of the electives in the minor, and some students were ambivalent about signing up for the minor for fear they would be unlikely to complete the minor in time for their graduation.

Currently, the minor structure requires students to choose 6 of their 8 elective credits from MSL courses, and the remaining 2 credits from courses in MSL or other disciplines. The available MSL elective courses are mainly 400 level classes, many of which are offered on alternate years. Thus, any particular student has a limited pool of MSL electives to choose from on a given semester.

Redistributing elective requirements to 3 credits from MSL courses and 5 credits from courses in MSL or other disciplines allows students more flexibility in 3 of the 8 elective credits required. Added courses from other disciplines will increase the number of 200 and 300 level courses available as electives, thus contributing to the needed flexibility.

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Signature, Chair, Program/Department of:	GPMSL
Jut Sul	Date 9/9(2013
Signature, Chair, College/School Council for:	Curriculu SFOS amile comiter
MM	Date 8 4,2012
Signature, Dean, College/School of:	
ALL SIGNATURES MUST BE OBTAINED P	RIOR TO SUBMISSION TO THE GOVERNANCE OFFICE
	Date
Signature, Chair, UAF Faculty S Review Committe	