$\textbf{Submit original with signatures} + 1 \ \textbf{copy} + \textbf{electronic copy to UAF Governance}. \\ \textit{See } \ \underline{\textit{http://www.uaf.edu/uafgov/faculty/cd}} \ \textit{for a complete description of the rules governing curriculum \& course changes}. \\ \end{aligned}$

TRIAL COURSE OR NEW COURSE PROPOSAL

Department							
	GPMSL		Colle	ege/School	SFOS		
Prepared by	Ana M. Aguilar-Islas		Phon	ie	907 474 1524		
Email	amaguilarislas@alaska.edu		Facu	lty Contact	Ana M. Aguilar-Isla		guilar-Islas
Contact	clneumann@alaska.	edu					
1 ACTION DES	SIRED (CHECK ONE): Trial Co	urce		New Cours	e 7	X
1. ACTION DES	oned (check one)	, mar ee	urse				
2. COURSE IDE	ENTIFICATION:	Dept	MSL	Course #	663 No	o. of Credits	3
	ber of credits:	his is a stacked 400/6 nemistry and marine s /nthesis paper (gradua etween the two levels raduate students and t ddition, a higher work	te level), and A greater le his should be	e will be 3 hour d a presentation evel of sophistic demonstrated	s of lecture per wee will be required. To cation and understantin the students' assi	k. Homework a he grading crite nding will be ex gnments and ex	ssignments, a ria will differ pected from ams. In
3. PROPOSED COURSE TITLE:			(Chemical Co	istal Processes		
4. To be CROSS YES/NO			yes, Dept:		Course #		
(Requires appro	oval of both departments a	nd deans involved. A	dd lines at e				1
5. To be STACKE YES/NO	ED ?	Yes	yes, Dept.	MSL	Course #	463	
6. FREQUENCY	OF OFFERING:	Alternate Spr	ng semester	'S			
		Fall, Spring, Sun	mer (Every,		ered Years, or Odd- Warrants	numbered Years	s) — or As
7 SEMESTER &			RING (if approved) Spring 2013				
	YEAR OF FIRST O	FFERING (if appro	oved)	Spring	2013		
8. COURSE FOR NOTE: Course hou	MAT: urs may not be compressed illege or school's curriculu mmittee. MAT: ply)	l into fewer than three	days per cre	edit. Any cours	e compressed into fe	weeks must be	ks to full
8. COURSE FOR. NOTE: Course hou approved by the cothe core review core. COURSE FOR. (check all that approximation)	MAT: urs may not be compressed of the compresse	l into fewer than three	days per cre	edit. Any cours	e compressed into fe	weeks must be	ks to full
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8. COURSE FOR. NOTE: Course hot approved by the cothe core review con COURSE FOR. (check all that ap OTHER FORM Mode of delivery field trips, labs, e 9. CONTACT How Note: # of credits in non-science laisyllabus. See http:	MAT: Irs may not be compressed ellege or school's curriculum mittee. MAT: ply) MAT (specify) (specify lecture, te) OURS PER WEEK: are based on contact how b=1 credit. 2400-4800 mic.://www.uaf.edu/uafgov/fa	l into fewer than three m council. Furthermo	days per cre, any core 3 CCTURE urs/weeks ture=1 credic credit. 2400	edit. Any course course compres	LAB hours /week s of lab in a science of internship=1 crea	X 6 weeks semest PRA hours course=1 credit	cticum s/week t. 1600 minute
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If justification is needed, attach on separate sheet.) H = Humanities N = Natural Science S = Social Sciences
Will this course be used to fulfill a requirement for the baccalaureate core? YES NO X
IF YES, check which core requirements it could be used to fulfill: O = Oral Intensive, Format 6 W = Writing Intensive, Format 7 Natural Science, Format 8
12. COURSE REPEATABILITY:
Is this course repeatable for credit? YES NO X
Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).
How many times may the course be repeated for credit?
If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course? CREDITS
13. GRADING SYSTEM: Specify only one. LETTER: X PASS/FAIL:
RESTRICTIONS ON ENROLLMENT (if any)
For MSL 663 Graduate Standing. For MSL 463 Upper-division standing, general chemistry e.g. CHEM 105 and CHEM 106), general oceanography (e.g. The Oceans -MSL 111), or permission from instructor.
These will be <i>required</i> before the student is allowed to enroll in the course.
RECOMMENDED
Classes, etc. that student is strongly encouraged to complete prior to this course.
15. SPECIAL RESTRICTIONS, CONDITIONS None
16. PROPOSED COURSE FEES \$0
Has a memo been submitted through your dean to the Provost & VCAS for fee approval?
Yes/No
17. PREVIOUS HISTORY
17. PREVIOUS HISTORY Has the course been offered as special topics or trial course previously? No
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17. PREVIOUS HISTORY Has the course been offered as special topics or trial course previously? Yes/No If yes, give semester, year, course #, etc.: 18. ESTIMATED IMPACT WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC. No impact on budget, facilities/space. The instructor, a recently hired SFOS faculty, is developing this course to help fulfill her teaching workload (2-3 courses per academic year). 19. LIBRARY COLLECTIONS Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not. No Yes X Communication with Anne Christie (Biosciences Library) determined the material required for the course is available from the library collection. An updated list of readings will be provided to Anne to ensure reading material is available to students during the class period.

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21. POSITIVE AND NEGATIVE IMPACTS

Please specify positive and negative impacts on other courses, programs and departments resulting from the proposed action

No negative impacts are expected from this course. The MSL program will be impacted positively by offering a course that focuses on the coastal ocean, as the course will promote a better understanding of chemical interactions in coastal waters, and will be useful for students whose research takes place in coastal environments.

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course 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. Use as much space as needed to fully justify the proposed course.

The coastal ocean is particularly vulnerable to environmental change. Understanding interactions among physical, chemical, and biological processes is necessary to predict and address the effects of ongoing environmental changes. Recent developments, including coastal acidification, eutrophication, and hypoxia in productive coastal regions highlight the need for understanding the chemical interactions involved. Currently the MSL program only offers one graduate course (MSL F626) that focuses on coastal/shelf processes, and it does so from a physical standpoint. Two chemistry-focused courses offered (MSL 660 and MSL 670) address the global ocean, touching only briefly on chemical coastal processes. The proposed course will provide students with a detailed study of chemical processes in the coastal ocean, adding depth and complementing information from the existing courses. The 400-level version is intended to reach upper-division undergraduates interested in the coastal ocean. The two levels will be differentiated by the expected workload and level of understanding. Graduate students will be expected to demonstrate deeper understanding through the homework assignments and exams and will be required to submit a heavier workload.

APPROVALS:	
	Date
Signature, Chair, Program/Department of:	
	Date
Signature, Chair, College/School Curriculum Council for:	Date
Signature, Dean, College/School of:	Date
Signature, Dean, Conege/School of.	
	Date
Signature of Provost (if applicable) Offerings above the level of approved programs must be approved in advance to	by the Provost.
3 11 1 3 11	
ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION	TO THE GOVERNANCE OFFICE
Signature Chair HAF Faculty Senate Comingles Parion Committee	Date
Signature, Chair, UAF Faculty Senate Curriculum Review Committee	Date
Signature, Chair, UAF Faculty Senate Curriculum Review Committee	Date
Signature, Chair, UAF Faculty Senate Curriculum Review Committee ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)	
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ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking))
ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)	Date
ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking) Signature, Chair, Program/Department of:	Date Date
ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking) Signature, Chair, Program/Department of:	Date

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ATTACH COMPLETE SYLLABUS (as part of this application).

Note: The guidelines are online: http://www.uaf.edu/uafgov/faculty/cd/syllabus.html

The department and campus wide curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course change will be <u>denied</u>.

SYLLABUS CHECKLIST FOR ALL UAF COURSES

During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout the semester, this document will contain the following information (as applicable to the discipline):

1. Course information:	
\Box Title, \Box number, \Box credits, \Box prerequisites, \Box location, \Box meeting time (make sure that contact hours are in line with credits).	
2. Instructor (and if applicable, Teaching Assistant) information:	
\square Name, \square office location, \square office hours, \square telephone, \square email address.	
3. Course readings/materials: ☐ Course textbook title, ☐ author, ☐ edition/publisher.	
\Box Supplementary readings (indicate whether \Box required or \Box recommended) and \Box any supplies required.	
4. Course description:	
☐ Content of the course and how it fits into the broader curriculum;	
☐ Expected proficiencies required to undertake the course, if applicable.	
☐ Inclusion of catalog description is <i>strongly</i> recommended, and	
☐ Description in syllabus must be consistent with catalog course description.	
5. ☐ Course Goals (general), and (see #6)	
6. ☐ Student Learning Outcomes (more specific)	
7. Instructional methods:	
☐ Describe the teaching techniques (eg: lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.).	
8. Course calendar:	
□ A schedule of class topics and assignments must be included. Be specific so that it is clear that the instructor has thought this through and will not be making it up on the fly (e.g. it is not adequate to say "lab". Instead, give each lab a title that describes its content). You may call the outline Tentative or Work in Progress to allow for modifications during the semester.	
9. Course policies:	
\Box Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity.	
10. Evaluation:	
\square Specify how students will be evaluated, \square what factors will be included, \square their relative value, and \square how they will be tabulated into grades (on a curve, absolute scores, etc.)	
11. Support Services:	
\square Describe the student support services such as tutoring (local and/or regional) appropriate for the course.	
12. Disabilities Services: The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials.	
☐ State that you will work with the Office of Disabilities Services (208 WHIT, 474-5655) to provide reasonable accommodation to students with disabilities."	

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