# TRIAL COURSE OR NEW COURSE PROPOSAL

<table>
<thead>
<tr>
<th>SUBMITTED BY:</th>
<th></th>
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<tbody>
<tr>
<td><strong>Department</strong>:</td>
<td>GPMSL</td>
</tr>
<tr>
<td><strong>Prepared by</strong>:</td>
<td>Ana M. Aguilar-Islas</td>
</tr>
<tr>
<td><strong>Email Contact</strong>:</td>
<td><a href="mailto:amaguilarislas@alaska.edu">amaguilarislas@alaska.edu</a> <a href="mailto:clneumann@alaska.edu">clneumann@alaska.edu</a></td>
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| **1. ACTION DESIRED**<br>(CHECK ONE): | Trial Course | X | New Course | |
|---------------------------------|-------------|---|------------| |

<table>
<thead>
<tr>
<th><strong>2. COURSE IDENTIFICATION</strong>:&lt;br&gt;Justify upper/lower division status &amp; number of credits:</th>
<th>Dept</th>
<th>MSL</th>
<th>Course #</th>
<th>694</th>
<th>No. of Credits</th>
<th>3</th>
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- This upper division/graduate level course is intended for students with a background in general chemistry and marine science. There will be 3 hours of lecture per week. Homework assignments, a synthesis paper (graduate level), and a presentation will be required.

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<tr>
<th><strong>3. PROPOSED COURSE TITLE</strong>:</th>
<th>Chemical Coastal Processes</th>
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| **4. To be CROSS LISTED?**<br>(Requires approval of both departments and deans involved. Add lines at end of form for such signatures.) | YES/NO | No | Course # | |
|---------------------------------|-------|----|---------| |

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<tr>
<th><strong>5. To be STACKED?</strong>&lt;br&gt;YES/NO</th>
<th>Yes</th>
<th>If yes, Dept.</th>
<th>MSL</th>
<th>Course #</th>
<th>463</th>
</tr>
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<tr>
<th><strong>6. FREQUENCY OF OFFERING</strong>:&lt;br&gt;Fall, Spring, Summer (Every, or Even-numbered Years, or Odd-numbered Years) — or As Demand Warrants</th>
<th>Alternate Spring</th>
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<tr>
<th><strong>7. SEMESTER &amp; YEAR OF FIRST OFFERING (if approved)</strong></th>
<th>Spring 2011</th>
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**8. COURSE FORMAT:**

- NOTE: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school’s curriculum council. Furthermore, any core course compressed to less than six weeks must be approved by the core review committee.

<table>
<thead>
<tr>
<th>COURSE FORMAT:</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>X</th>
<th>6 weeks to full semester</th>
</tr>
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</table>

- OTHER FORMAT (specify): Mode of delivery (specify lecture, field trips, labs, etc)

<table>
<thead>
<tr>
<th><strong>9. CONTACT HOURS PER WEEK:</strong></th>
<th>3</th>
<th>LECTURE hours/weeks</th>
<th>LAB hours/week</th>
<th>PRACTICUM hours/week</th>
</tr>
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- Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. 1600 minutes in non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See [http://www.uaf.edu/uafgov/faculty/cd/credits.html](http://www.uaf.edu/uafgov/faculty/cd/credits.html) for more information on number of credits.

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<tr>
<th>OTHER HOURS (specify type)</th>
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**10. COMPLETE CATALOG DESCRIPTION including dept., number, title and credits (50 words or less, if possible):**

- MSL 694 Chemical Coastal Processes
- 3 credits Offered Spring
- A study of chemical processes in the coastal ocean. This course will examine chemical interactions at different boundaries, and explore physical and biological controls on the chemistry of coastal environments. Topics include: Photochemical processes; the role of suspended particles; coastal acidification; controls on coastal productivity; future challenges in coastal management. This course is intended for students with a background in general chemistry and marine science.
11. **COURSE CLASSIFICATIONS:** (undergraduate courses only. Use approved criteria found on Page 10 & 17 of the manual. If justification is needed, attach on separate sheet.)

<table>
<thead>
<tr>
<th>H = Humanities</th>
<th>S = Social Sciences</th>
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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

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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? __ TIMES __

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 __

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13. **GRADING SYSTEM:** Specify only one.

| LETTER ☐ | PASS/FAIL ☐ |

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14. **PREREQUISITES**

For MSL 694 Graduate Standing. For MSL 494 General chemistry (i.e. CHEM 105 and CHEM 106), The Oceans (MSL 111), or permission from instructor. RECOMMENDED For MSL 694 Chemical Oceanography (MSL 660).

Classes, etc. that student is strongly encouraged to complete prior to this course.

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15. **SPECIAL RESTRICTIONS, CONDITIONS**

None

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16. **PROPOSED COURSE FEES**

$0

Has a memo been submitted through your dean to the Provost & VCAS for fee approval? **Yes** ☐ **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.: __

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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).

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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 reading material required for the course is available from the library collection. An updated list of readings will be provided to Anne to ensure all reading material is available to students during the class period.

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20. **IMPACTS ON PROGRAMS/DEPARTMENTS**

What programs/departments will be affected by this proposed action?

Include information on the Programs/Departments contacted (e.g., email, memo)

The proposed new course will have a positive impact on the MSL program by increasing the available courses offered to graduate students. A course in chemical coastal processes will be of interest to Fisheries students (graduate and undergraduate) as well as to graduate students in Environmental Chemistry.

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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.
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.

APPROVALS:

Signature, Chair, Program/Department of: ___________________________ Date: __________

Signature, Chair, College/School Curriculum Council for: ___________________________ Date: __________

Signature, Dean, College/School of: ___________________________ Date: __________

Signature of Provost (if applicable) ___________________________ Date: __________

Offerings above the level of approved programs must be approved in advance by the Provost.

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

Signature, Chair, UAF Faculty Senate Curriculum Review Committee ___________________________ Date: __________

ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)

Signature, Chair, Program/Department of: ___________________________ Date: __________

Signature, Chair, College/School Curriculum Council for: ___________________________ Date: __________

Signature, Dean, College/School of: ___________________________ Date: __________
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 denied.

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:**
   - Title, number, credits, prerequisites, location, meeting time
   - (make sure that contact hours are in line with credits).

2. **Instructor (and if applicable, Teaching Assistant) information:**
   - Name, office location, office hours, telephone, email address.

3. **Course readings/materials:**
   - Course textbook title, author, edition/publisher.
   - Supplementary readings (indicate whether required or recommended) and 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 strongly 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 (e.g: 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:**
   - Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity.

10. **Evaluation:**
    - Specify how students will be evaluated, what factors will be included, their relative value, and how they will be tabulated into grades (on a curve, absolute scores, etc.)

11. **Support Services:**
    - 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.”