**TRIAL COURSE OR NEW COURSE PROPOSAL**

(Attach copy of syllabus)

**SUBMITTED BY:**

<table>
<thead>
<tr>
<th>Department</th>
<th>Developmental Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepared by</td>
<td>Sandra Wildfeuer</td>
</tr>
<tr>
<td>Email Contact</td>
<td><a href="mailto:sjwildfeuer@alaska.edu">sjwildfeuer@alaska.edu</a></td>
</tr>
<tr>
<td>College/School</td>
<td></td>
</tr>
<tr>
<td>Phone</td>
<td>907-474-1931</td>
</tr>
<tr>
<td>Faculty Contact</td>
<td>Sandra Wildfeuer</td>
</tr>
</tbody>
</table>

1. **ACTION DESIRED**
   (CHECK ONE):
   - [ ] Trial Course
   - [x] New Course

2. **COURSE IDENTIFICATION:**
   - Dept: DEV
   - Course # : 068
   - No. of Credits: 4
   - Justify upper/lower division status & number of credits: Equivalent to DEV 054 and DEV 055. It is four credits (4+0).

3. **PROPOSED COURSE TITLE:**
   - Mathematical Literacy

4. **To be CROSS LISTED?**
   - Yes/No: No
   - If yes, Dept:  
   - Course #:  
   - NOTE: Cross-listing requires approval of both departments and deans involved. Add lines at end of form for additional required signatures.

5. **To be STACKED?**
   - Yes/No: No
   - If yes, Dept:  
   - Course #:  
   - How will the two course levels differ from each other? How will each be taught at the appropriate level?:

6. **FREQUENCY OF OFFERING:**
   - Every Semester
   - Fall, Spring, Summer (Every, or Even numbered Years, or Odd numbered Years) — or As Demand Warrants

7. **SEMESTER & YEAR OF FIRST OFFERING**
   - Effective
   - AY2015-16 if approved by 3/31/2015; otherwise AY2016-17
   - Spring 2016

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.
   - COURSE FORMAT: (check all that apply)
     - [ ] 1
     - [ ] 2
     - [x] 3
     - [ ] 4
     - [ ] 5
     - [x] 6 weeks to full semester
   - OTHER FORMAT (specify)
   - Mode of delivery (specify lecture, field trips, labs, etc)
     - Face to face lecture, asynchronous distance delivery and synchronous distance delivery
   - In addition to being taught over a full semester, it will also be offered for distance delivery, and may be expanded to other time frames as demand warrants.
9. CONTACT HOURS PER WEEK:

<table>
<thead>
<tr>
<th>LECTURE</th>
<th>LAB</th>
<th>PRACTICUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td></td>
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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.usf.edu/usfgo/faculty-senate/curriculum/course-degree-procedures-guidelines-for-computing/](http://www.usf.edu/usfgo/faculty-senate/curriculum/course-degree-procedures-guidelines-for-computing/) for more information on number of credits.

OTHER HOURS (specify type)

10. COMPLETE CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, cross-listings and/or stacking (50 words or less if possible):

Example of a complete description:

**FISH F487 W, O** Fisheries Management
3 Credits Offered Spring
Theory and practice of fisheries management, with an emphasis on strategies utilized for the management of freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F211X or ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487. (3+0)

**DEVN 068** Mathematical Literacy
4 credits Offered every semester
Teaches the concepts of basic arithmetic and introductory algebra. Includes operations and properties on real numbers, ratio, proportion, percent, scientific notation and variation, topics from consumer mathematics, evaluation of literal expressions, solution and graphs of linear equations and inequalities; radicals and exponents, polynomials, factoring and special products, fundamental operations with algebraic fractions, solution of quadratic equations, and elementary systems of equations. Geometric formulae are presented on a case-by-case basis as needed. Student success strategies and college readiness skills are emphasized.

11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank.

- **H = Humanities**
- **S = Social Sciences**

Will this course be used to fulfill a requirement for the baccalaureate core? If YES, attach form.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

IF YES, check which core requirements it could be used to fulfill:

- **O = Oral Intensive, Format 6**
- **W = Writing Intensive, Format 7**
- **X = Baccalaureate Core**

11.A Is course content related to northern, arctic or circumpolar studies? If yes, a “snowflake” symbol will be added in the printed Catalog, and flagged in Banner.

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
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<tbody>
<tr>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

12. COURSE REPEATABILITY:

<table>
<thead>
<tr>
<th>Is this course repeatable for credit?</th>
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</thead>
<tbody>
<tr>
<td><strong>YES</strong></td>
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</table>

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?

<table>
<thead>
<tr>
<th>TIMES</th>
</tr>
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</table>

If the course can be repeated for credit, what is the maximum number of credit hours that may be earned for this course?

<table>
<thead>
<tr>
<th>CREDITS</th>
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</table>

If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course?
13. GRADING SYSTEM: Specify only one. Note: Changing the grading system for a course later on constitutes a Major Course Change – Format 2 form.

LETTER: X PASS/FAIL: 

RESTRICTIONS ON ENROLLMENT (if any)

14. PREREQUISITES

ALEKS placement in DEV M 054 or equivalent.

These will be required before the student is allowed to enroll in the course.

15. SPECIAL RESTRICTIONS, CONDITIONS

None

16. PROPOSED COURSE FEES

$0

Has a memo been submitted through your dean to the Provost for fee approval? Yes/No

No

17. PREVIOUS HISTORY

Has the course been offered as a special topics or trial course previously? Yes/No

Yes

If yes, give semester, year, course #, etc.:

Fall 2013, Spring 2014, Spring 2015
DEV M 094 Mathematical Literacy

18. ESTIMATED IMPACT

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

No impact on budget, facilities / space. The instructor has developed the class as part of her workload.

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 X Yes

Library collections are not needed for this course.

20. 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 Department of Developmental Education will be impacted because this class will prepare students for core courses faster while emphasizing student's mathematical understanding, college readiness and conceptual knowledge.

21. POSITIVE AND NEGATIVE IMPACTS

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

A positive impact for departments is that students can move through the math sequence and begin taking core math courses sooner, decreasing time toward graduation.

A negative impact is that this is a four-credit class, and students may need to limit the number of other classes that they take concurrently.
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.

A Mathematical Literacy course offers students the opportunity to learn the concepts of Prealgebra and Elementary Algebra in an accelerated format, while focusing on context and critical thinking. This course serves as a mathematical foundation for both STEM and non-STEM students and covers the fundamental topics of developmental mathematics while actively engaging students in problem solving and reasoning strategies. College readiness and student success strategies are emphasized, including time management, organization, and study habits.

UAA has had a similar course since 2007. UAF wants to offer hard-working students opportunity to move into core math course work sooner in their academic career.

APPROVALS: Add additional signature lines as needed.

Signature, Chair, Program/Department of: ___________ Date: 9/29/15

Signature, Chair, College/School Curriculum Council for: __________________________

Signature, Dean, College/School of: __________________________________________

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

Signature of Provost (if above level of approved programs) ___________ Date: ___________

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

Signature, Chair _____________________________ Date: ___________

Faculty Senate Review Committee: ___Curriculum Review  ___GAAC

___Core Review  ___SADAC

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: ___________