1. Desired Term: Spring 2008

2a. Course abbreviation and Number: EDUC E1077

2b. Abbreviated Title: Algebraic Teaching with Graphing Calculators

4. Number of Units: 2

5. Billing Units: 2 ($80)

6. Allowed Student Levels: UG X GR X EE X (Default is to check all three levels)

7. Grading Method: __ N Normal (N) (Default is Letter Grade +/-, Students may request Credit/No Credit)
   __ N Normal Plus Report-in-Progress (NP) (As for Normal; also allows Report-in-Progress)
   __ C Credit/No Credit Only (C)
   __ C Credit/No Credit or Report-in-Progress Only (CP)

8. Mode of Instruction:
   (See pages 17-23 at http://www.calstate.edu/clm/data-elements/APDB-Transaction-DEF-SectionV.pdf for definitions of the Course Classification Numbers)

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<tr>
<th>Type of Instruction</th>
<th>Number of Credit Units</th>
<th>Instructional Mode (Course Classification Number)</th>
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<tr>
<td>Lecture</td>
<td>2</td>
<td>C-02</td>
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<td>Activity</td>
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<td>Lab</td>
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9. Attributes: Course Requires Consent for Enrollment? Yes X No
   _______ Faculty _______ Credential Analyst _______ Dean _______ Program/Department - Director/Chair
   Prerequisites: _______ Co-requisites: _______

10. Does this course impact other discipline(s)? (If there is any uncertainty as to whether a particular discipline is affected, check "yes" and obtain signature.) Yes X No
    If yes, obtain signature(s). Any objections should be stated in writing and attached to this form.

    Math (see email) 2/14/08 Support ______ Oppose ______

    Discipline Signature Date

    _______ Support _______ Oppose ______

    Discipline Signature Date

Important: Please Complete

1. Instructor: Lee Kucera, Ph.D.

2. Extension Course Proposal Form attached

SIGNATURES: (COLLEGE LEVEL)

[Signatures]

[Signature] Date
1. Program Director/Chair

[Signature] Date
2. College Dean (or Designee)

(UNIVERSITY LEVEL)

[Signature] Date
3. Dean of Extended Studies (or Designee)

[Signature] Date
4. Vice President for Academic Affairs (or Designee)
In planning the components of our Extended Studies program at Cal State San Marcos, this office consults closely with the academic colleges and departments to determine the suitability of course content, teaching methods and instructor qualifications. To assist us in evaluating your proposed course for credit, please submit this completed form to our office as soon as possible. Questions before you submit? Call me at (760) 750-8713.

- **Course Title:** Using Graphing Calculators to Teach California AP and Pre-AP Math Standards

- **Course Description:**
  Participants will learn to make better use of TI-84 graphing calculator technology in high school math classes. The course will look at various features graphing calculators, applications available, ways to display and use technology with students and related technology (TI-Nspire) for use in high school mathematics classes. Activities will be linked to the California mathematics standards.

- **Course Objectives:** (Provide specific student learning outcomes and how they will be achieved.)
  Participants will become more familiar with features and use of graphing calculators, graphing calculator applications and related technology for use in high school mathematics classes. The class will be taught by instructor demonstration followed by participant practice. TI-84+ graphing calculators will be available for use in class.

- **Evaluation:**
  Participation in class and completion of assigned activities and lessons.

- **Course Length:** (How many actual contact hours in class? Note: Credit courses must contain a minimum of fifteen 50-minute contact hours for each semester unit of credit, and outside of class work by students is required)
  The four sessions – 7+ hours in length

- **Proposed Date(s):** November 7, 2007, December 12, 2007, February 12, 2008, March 5, 2008

- **Location:** (Indicate if you are proposing this course to be scheduled and offered in our facilities, or if this course is to be held at an off-campus location, such as a school, district or county office, company, etc.)
  San Diego County Office of Education—North County Regional Education Center

- **Support Needs:**
  LCD Projector—instructor will provide own laptop

- **Comments:** (Please add any other relevant information, such as whether or not the course has been taught elsewhere successfully, why the course is needed in our area, marketing suggestions, etc.)
  It was taught last year but not for university credit. NCPDF and SDCOE handles the marketing in conjunction with Texas Instruments.

When completed, please return this form, along with an up-to-date resume (with teaching references) to:
Catherine Boyle Asker, Office of Extended Studies, Cal State San Marcos, 333 S. Twin Oaks Valley Rd., San Marcos, CA 92096; FAX: (760)750-3138; E-mail: cboyle@csusm.edu
Lee E. Kucera, Ph.D.

Current assignment – Math Department Chair, GATE Coordinator, Teacher: AP Statistics and IB Math Studies

Capistrano Valley High School 985 Balboa Avenue
26301 Via Escolar Laguna Beach, CA 92651
Mission Viejo, CA 92692 949.499.3823
949.364.6100 x2320 949.422.7567 cell
lekucera@cox.net or lekucera@capousd.org

Education
U.C.L.A. Psychology/Math A.B. 1970
U.C.L.A. Educational Research graduate units
U.C.I. Education Credentials 1973
U. of San Francisco Secondary Education M.A. 1979
Berne University Mathematics Education Ph.D. 1998

Professional Organizations/ Affiliations
American Statistical Association—member, conference attendance
National Council of Teachers of Mathematics, California Mathematics Council, Orange County
Mathematics Association—conference attendance, presenter, past state officer
T³ Regional Instructor—Texas Instruments

Staff Development/ Curriculum
Attended NCSSM 3-week workshop—Beyond AP Statistics, 1999; member of activity writing team
that developed JMP Intro Activities, 2001; attended Experimental Design Workshop, 2004
Wrote Mentor project to develop curriculum for A.P. Statistics—Capistrano USD, 1995
College Board Certified International Workshop leader—present both one- and two-day College
Board workshops in AP Statistics—Western region and internationally (Singapore); four-
and five-day College Board approved workshops (U. Montana—Billings, CSU-Sacramento,
Stanford U., Bellevue, U. Utah, CSU San Marcos, Honolulu) workshops for AP Statistics
teachers: 2000—ongoing
Attended IB Mathematical Studies training: 2004 (Level 1), 2006 (Level 2)
Intern Teacher Mentor through CSU Fullerton: 2005
BTSA Support Provider and Master Teacher: 2006—ongoing
Participant in CSU Fullerton Professional Development Resources Online for Mathematics: 2005-06
Reviewer for AP Central Teachers’ Resources section and numerous AP Statistics textbook and
review book publishers: 2003—ongoing
Wrote AP Statistics Audit syllabus for Capistrano USD: 2006
CUSD Professional Development Speaker: 1997—ongoing
TI-nspire 2-day preview, 3-day training, AP Consultant Training: 2007
T³ Graphing Calculator AP Workshop Series, North San Diego County, Presenter: 2007-08

Math Standards/Assessment
Reader for AP Statistics: 7 years, 1997—present
Reader, Table Leader and question writer for California Golden State Exam: 1992-99
Item-writer for NSE—items for the North Carolina State mathematics exams: 1994-5
Item-writer for Orange County Department of Education, CAHSEE test bank: 2002
Advanced Placement Consortium Project

In Association with Texas Instruments

Present

$T^3$ - Teachers Teaching with Technology

Graphing Calculator - Advanced Placement Workshop Series

Algebra II & Pre-Calculus with TI-83+ and TI 84+ for High School Teachers

Grade level teams strongly encouraged to attend

Objectives:

- Improve your TI-Graphing Calculator skills
- Key Algebra II & Pre-Calculus classroom activities aligned to state standards
- Effective technology-based activities that engage students in standards-based learning
- Prepare students for Advanced Placement through calculator activities and problem solving

Dates:
- Wednesday, November 7, 2007
- Wednesday, December 12, 2007
- Wednesday, February 12, 2008 (CSUSM)
- Wednesday, March 5, 2008

Times: 8:30 a.m. - 3:30 p.m.

Cost: No cost to APCP and NCPDF members (see list on back)
- $200 for non-members for all 4 sessions

Meals: Continental Breakfast and Snacks Provided (Lunch on your own)

Location: North County Regional Educational Center (NCREC), 255 Pico Ave, Suite 101, San Marcos, CA 92069

Directions at: http://www.ncpdp.org/map.asp

CEU credits available - CSU San Marcos

For more information, please call Arturo Cabello, 760-761-5184

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To register, please return/fax completed form to: Attn: Chris Ness, FAX 760-744-6293
Hi Virginia,
Thanks for sending this. I have no concerns about it.
Linda

On 2/14/08 11:07 AM, "Virginia Mann" <vmann@csusm.edu> wrote:

Hi Linda,

Extended Learning would like to offer the attached course - Algebraic Teaching with Graphing Calculators. Please let us know if you have any comments or concerns regarding this course.

Thanks,
Virginia

Virginia Peters Mann
Curriculum Specialist
Academic Programs
CSU San Marcos
Tel: (760) 750-8887