

December 10, 2009

Dear Prospective Mathematics and Science Teachers,

During 2010, the Mathematics and Science Teacher Initiative (**MSTI**) at California State University, Fresno will offer a variety of very affordable and high quality courses and workshops for Multiple and Single Subject teachers who wish to add an NCLB-compliant math or science credential to their existing credential. Please share this email with others who may wish to take advantage of these opportunities!

In addition to taking the MSTI-sponsored CSET workshops, prospective math teachers are also encouraged to enroll in our Math 130-series courses designed for middle school math teachers via Open University. In Spring 2010, Math 134 (Geometry, Dr. Amarasinghe) and Math 138 (Exploring Algebra, Dr. Burger) will be offered on T/Th (4-5:15 and 5:30-6:45, respectively). Contact the instructors for more information: Dr. Rajee Amarasinghe (ramarasi@csufresno.edu) and Dr. Lance Burger (lburger@csufresno.edu).

Below you will find information about the math and science credentials that you may wish to obtain, as well as some information about the MSTI workshops and courses (all of which will be held on the CSU-Fresno campus). Visit the MSTI Web site for updates: <http://csufresno.edu/teachmathscience>

### **Single Subject Math and Science Credentials:**

**\* Foundational-Level Math (FLM):** See

<http://www.ctc.ca.gov/notices/coded/0709/0709.pdf> Allows you to teach through algebra and geometry at any grade level, but primarily intended for those who wish to teach middle school math--Algebra I and below. Single Subject (SS) credential holders (in an area other than mathematics) need to pass Math CSET Subtests I and II. Multiple Subject (MS) credential holders need to pass the subtests plus take a single subject methods course such as Fresno State's CI 161.

**\* Foundational-Level General Science (FLGS):** See

<http://www.ctc.ca.gov/notices/coded/2009/0902.pdf> Allows you to teach introductory and general science, introductory life science, and introductory physical science in gr. K-12 and integrated science in grades preK-8. SS teachers just need to pass Science CSET Subtests I and II. MS teachers need to pass the subtests plus a single subject methods course such as CI 161.

**\* Mathematics:** Allows you to teach all math courses through AP Calculus. SS teachers need to pass the Math CSET Subtests I, II, and III. MS teachers must pass these and take CI 161.

\* **Science:** Instruction in biology, chemistry, geosciences, or physics is allowed based upon the credential obtained. Many high school science teachers "add on" another area of science to increase their employment and instructional options. If a teacher has passed Science CSET Subtests I and II (General Science), he or she can teach physics, for example, if CSET Subtest III (Physics) is passed, and also teach chemistry if CSET Subtest III (Chemistry) is passed. MS teachers would need to pass Science CSET Subtests I, II, and III (in a particular area), as well as CI 161. SS teachers can add on a science area by passing Subtests III and IV if they haven't taken Subtests I and II. (For more information, contact Dr. David Andrews, advisor for SS Science: davidan@csufresno.edu)

### **CSET Workshops, PhysTeach, and CI 161:**

MSTI workshops provide a review of the subject matter that is included on the CSETs. If you would like to register for any of these workshops/courses, email the following to **May Lee (maylay@csufresno.edu)**: The title(s) of the workshop(s)/classes you're interested in, your name, telephone numbers(s), school name and district (if any), current credential type (e.g., Multiple Subject, Single Subject Physics, FLM, etc.), CSET subtests that you have passed so far (if any), and your preferred email address. Please use the "Reply" command so that the Subject of the message remains the same. (Please cc me: carolb@csufresno.edu)

#### **\* Mathematics CSET Subtest III**

**What?** Mathematics CSET Subtest III workshop focusing on calculus and the history of mathematics (Email May Lee if you'd like to see a copy of the syllabus.) Instructors: Dr. Adnan Sabuwala (calculus) and Dr. Agnes Tuska (history of math).

**When?** January 16 - March 9, 2010 (Saturdays, 8:30 a.m.-12:30 p.m.; Tuesdays, 5:30-8:30 p.m.). The workshop is timed to target the March 13, 2010 administration of the CSET (<http://www.cset.nesinc.com/>).

**Where?** Fresno State campus (Tuesdays: Peters Building 105; Saturdays: Education Building 153)

**Why?** To help refresh your memory of calculus and prepare you for Mathematics CSET Subtest III

**Cost?** Only \$25 for all 16 sessions, due to Fresno State's MSTI grant. Course materials will be provided free of charge. Payment (\$25 check made payable to SJVMP) must also be sent to May Lee by January 7, or your seat will be released if there is a waiting list. *Mailing address:* May Lee c/o SJVMP; California State University, Fresno; 5005 N. Maple Ave., M/S ED 2; Fresno, CA 93740-8025.

#### **\* Mathematics CSET Subtest II**

We are planning to offer this 45-hour workshop in late February or March through May (usually on a Saturday morning and a weekday from 5-8 p.m., similar to the CSET

Subtest III workshop). Visit the MSTI Website in January for more details: <http://csufresno.edu/teachmathscience> (Once you register, May Lee will put you in our database and send you the information directly.) Instructor: Dr. Oscar Vega. Cost: \$25

### **\* Mathematics CSET Subtest I**

We are planning to offer this 45-hour workshop in late spring/early summer (probably May or June through July). Visit the MSTI Website in January or February for more details: <http://csufresno.edu/teachmathscience> (Once you register, May Lee will put you in our database and send you the information directly.) Instructor: Dr. Comlan de Souza. Cost: \$25

### **\* Science CSET Workshops**

MSTI-Fresno will also be offering Science CSET Subtest I/II/III/IV workshops during the spring and summer. The schedule will be posted soon at <http://csufresno.edu/teachmathscience> You can also email May Lee for a copy of the flyer. In short, the workshop sessions will meet from 8 a.m.-4 p.m. on March 6 (orientation and CSET Subtest I and II overview), April 10 (Physics), April 17 (Chemistry and Geosciences), April 24 (Biology), June 12 (Physics), June 19 (Chemistry and Geosciences), and June 26 (Biology). Cost: Free!

### **\* PhysTeach**

This unique, lab-based course is back by popular demand! It will be held in Dr. David Gettman's physics classroom at University High School on the CSU-Fresno campus. The primary audience is current high school and middle school science teachers plus Multiple Subject teachers who want to add a physics credential to their existing credential. The secondary audience is current single subject or multiple subject teachers (or prospective teachers) who want to learn more about teaching physics. The goals of the class are to learn how to teach physics from a modeling perspective and to learn some additional physics content. The class meets on Saturdays from 8:30 a.m. until 3:30 p.m. Currently the dates include the following: January 16 & 30; February 20 and 27; March 20 and 27; April 24; May 1, 14, and 22; June 5 and 26; July 10, 17, and 31; and August 7 and 21. Dr. Gettman would welcome any questions about the course: [dgettman@csufresno.edu](mailto:dgettman@csufresno.edu) Cost: \$50 for the course plus optional university course credit (NatSci 140T: 3 or 6 units @ \$75/unit).

### **\* CI 161**

This 3-unit teaching methods course will be offered on June 14-17, 21-24, and 28-30, plus July 1 and July 6-8 from 3-6 p.m. The instructor, Katy Hieger, is the grades 7-12 science TSA for Fresno Unified and has experience teaching CI 161, as well as science

workshops for K-6 teachers. The focus of this section of CI 161 is middle school science. Since everyone who takes this class will want academic credit, the only charge will be the fee for the units: 3 units @ \$75/unit.

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**Special Offer:** Your CSET Subtest fees can be **reimbursed!** Please keep a copy of your CSET receipt(s) and a copy of your test scores so that your fee can be reimbursed by Margaret Cardiel (278-0313; Education Building, Room 156; [mcardiel@csufresno.edu](mailto:mcardiel@csufresno.edu)). Her office is located near Sherri Nakashima's office (ED 151), where you will apply for your **credential** (or additional authorization). Sherri's email address is [sherrin@csufresno.edu](mailto:sherrin@csufresno.edu)

**COMET:** Join 6000 other educators who have subscribed to the California Online Mathematics Education Times (COMET) for the latest information about state and national education issues. It's free! Subscribe by sending an email to [listserv@listserv.csufresno.edu](mailto:listserv@listserv.csufresno.edu) In the body of the message, simply say Subscribe COMET. Visit the COMET Web site for more details: <http://www.comet.cmpso.org/>

I'd be happy to answer your questions: (559) 999-3188 (cell) or [carolb@csufresno.edu](mailto:carolb@csufresno.edu) (email preferred).

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[http://education.csufresno.edu/facstaf/bohlin\\_c.htm](http://education.csufresno.edu/facstaf/bohlin_c.htm)