



## Workshops, Courses, and Scholarships for Prospective Mathematics and Science Teachers

Mathematics and Science Teacher Initiative (MSTI)  
California State University, Fresno  
~ Spring/Summer 2010 ~

---

The Mathematics and Science Teacher Initiative (MSTI) is offering a series of workshops and courses for **prospective teachers of mathematics and science at the middle and/or high school levels**. These workshops and courses are particularly appropriate for those holding or pursuing a Multiple Subject credential, although Single Subject credential holders may be interested in adding an additional authorization to their current credential. Below you will find information about Single Subject mathematics and science credentials, as well as some information about the MSTI workshops and courses. Visit the **MSTI Web site** for more information and updates: <http://csufresno.edu/teachmathscience> (Look in the "Announcements" area.)

### Single Subject Mathematics and Science Credentials:

- **Foundational-Level Math (FLM):** 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 these two subtests plus take a single subject methods course such as Fresno State's CI 161.
- **Foundational-Level General Science (FLGS):** Allows you to teach introductory and general science, introductory life science, and introductory physical science in grades K-12 and integrated science in grades K-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 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.

In summary, if you already have a Multiple Subject (MS) credential (or if you are in the MS program), you need to take CI 161 (methods course) and the appropriate CSET subtests. If you have a Single Subject credential, you just need to pass the CSET subtests.

CI 161 and "CSET Prep" workshops are offered by the Mathematics and Science Teacher Initiative (MSTI) at California State University, Fresno. We welcome you to take advantage of these high-quality educational experiences offered by some of our very best faculty and instructors!

### Mathematics CSET Subtest III (Calculus, History of Math)

- **Instructors:** Drs. Adnan Sabuwala (asabuwala@csufresno.edu) and Agnes Tuska
- **Dates:** 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/>).
- **Location:** Fresno State campus – Tuesdays: Peters Building 105; Saturdays: Science II, 207
- **Workshop Cost (total):** \$25
- **To Register:** Send email to May Lee at [maylay@csufresno.edu](mailto:maylay@csufresno.edu) (The workshop has concluded, but email May to let her know of your interest in taking this workshop in the fall so that we can contact you when it is scheduled. View the syllabus at the following website: [http://csufresno.edu/teachmathscience/docs/CSET\\_Math\\_Subtest\\_III-SP2010.pdf](http://csufresno.edu/teachmathscience/docs/CSET_Math_Subtest_III-SP2010.pdf))

### Mathematics CSET Subtest II (Geometry; Probability and Statistics)

- **Instructor:** Dr. Oscar Vega (ovega@csufresno.edu)
- **Dates:** The following Wednesdays and Saturdays: February 20, 24, 27; March 3, 6, 10, 24, 27, 31; April 7, 14, 21, 24; May 1, 5, 2010
- **Times:** Wednesdays: 5:30-8:30 p.m.; Saturdays: 1-4 p.m.
- **Location:** Fresno State campus; Room: Science II-Room 207      **Workshop Cost (total):** \$25
- **To Register:** Send email to May Lee at [maylay@csufresno.edu](mailto:maylay@csufresno.edu) (The workshop has already started, but you can attend sessions of interest. View the syllabus at [http://csufresno.edu/teachmathscience/docs/CSET\\_II\\_Workshop\\_Syllabus-SP10.pdf](http://csufresno.edu/teachmathscience/docs/CSET_II_Workshop_Syllabus-SP10.pdf))

### Mathematics CSET Subtest I (Algebra)

- **Instructor:** Dr. Comlan de Souza (csouza@csufresno.edu)
- **Dates:** June 14-17 (M-Th), June 21-24 (M-Th), June 28-July 1 (M-Th), and July 6-8 (T-F), 2010
- **Time:** Noon – 3 p.m.
- **Location:** Fresno State campus; Kremen Education Building (ED), Room 10 (except for June 16 and June 17, when the workshop location will be ED 400)
- **Workshop Cost (total):** \$25
- **To Register:** Send email to May Lee at [maylay@csufresno.edu](mailto:maylay@csufresno.edu)

**PhysTeach** (This class is open to teachers/prospective teachers at all levels who desire a deeper knowledge of physics concepts as well as experience learning these concepts in a hands-on, experiential fashion.)

- **Instructor:** Dr. David Gettman (UHS physics teacher; dgettman@csufresno.edu)
- **Dates:** Course 1--January 30; February 6 and 27; March 20 and 27; April 24; May 1, 15, and 22; June 5 and 26; July 10, 17, and 31; and August 7 and 21, 2010
- **Time:** 8:30 a.m. - 3 p.m.
- **Location:** University High School physics classroom (portable #15), CSUF
- **Cost:** Free! (optional NatSci 140 credit: \$75/unit; scholarships available)
- **To Register:** Send email to Carol Fry Bohlin at [carolb@csufresno.edu](mailto:carolb@csufresno.edu)

### Science CSET Subtest I/II/III/IV Workshops

- **Instructors:** Dr. Brad Huff, Kelly Sullivan, and Dr. David Tinker
- **Time:** 8 a.m.-4 p.m.
- **Dates:** 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**), 2010 **Note:** See [http://csufresno.edu/teachmathscience/docs/CSET\\_Science\\_Info\\_Flyer\\_SP-SU2010.pdf](http://csufresno.edu/teachmathscience/docs/CSET_Science_Info_Flyer_SP-SU2010.pdf)

- **Location:** Fresno State campus: March 6--Science II, Room 109; April 17--Kremen Education 153; All other dates--Kremen Education 10  
(<http://www.csufresno.edu/ucomm/maps/pdf/CampusMapLTR8-09.pdf>)
- **Cost:** Free!
- **To Register:** Send email to Brad Huff at [bradh@csufresno.edu](mailto:bradh@csufresno.edu) (Note: The April and June workshops will cover material covered on Subtests I-IV.)

**CI 161** (required 3-unit methods class for prospective Foundational-level General Science teachers; not required for teachers currently holding a Single Subject credential)

- **Instructor:** Katy Hieger ([khieger@aol.com](mailto:khieger@aol.com))
- **Dates:** June 14-17, 21-24, and 28-30, plus July 1 and July 6-8, 2010
- **Times:** 3-6 p.m. on all days but June 16 and June 17, when the class will meet from 4-7 p.m.
- **Location:** Fresno State campus--Kremen Education Building, Room 10
- **Cost:** \$75/unit (scholarships available)
- **To Register:** Send email to May Lee at [maylay@csufresno.edu](mailto:maylay@csufresno.edu)

**CSET Fees:** MSTI will reimburse your test fees! We'll just need a copy of your receipt and your test scores (you need not pass to be reimbursed). Email May Lee: [maylay@csufresno.edu](mailto:maylay@csufresno.edu)

**Applying for your Credential:** It's very important that you apply for your credential through Sherri Nakashima's office in the Education building, Room 151 (8 a.m.-5 p.m., M-F) once you have passed the necessary CSETs (and/or CI 161). Sherri's email address is [sherrin@csufresno.edu](mailto:sherrin@csufresno.edu)

**COMET:** All MSTI workshop/course participants receive a free subscription to the weekly publication, *California Online Mathematics Education Times* (COMET). Check out back issues at <http://www.comet.cmpso.org/>

### Scholarship Opportunities:

(1) The **Fresno Teaching Fellows (FRETEF)** program is a prestigious program funded by the National Science Foundation that offers large stipends and support for pursuing a teaching credential and a master's degree in mathematics or science and teaching in a high needs school. If you are interested in learning more (and if you haven't taught for more than a year,) please contact Project Director Lance Burger ([lance\\_burger@csufresno.edu](mailto:lance_burger@csufresno.edu)) as soon as possible for more details about this wonderful opportunity!

(2) The **Teacher Recruitment Program (TRP)** helps defray the cost of course fees (up to \$500) for students pursuing a single subject credential (including foundational-level) in science or mathematics. Contact Dr. Jody Daughtry for information about this program: [jodyd@csufresno.edu](mailto:jodyd@csufresno.edu) (278-0307).

.....

Please feel free to contact me at [carolb@csufresno.edu](mailto:carolb@csufresno.edu) or (559) 999-3188 for more information, and also visit our Web site at <http://csufresno.edu/teachmathscience>

All the best,

*Dr. Carol Fry Bohlin*  
Professor and MSTI Director  
California State University, Fresno