



*The Mathematics and Science Teacher Initiative (MSTI) at  
California State University, Fresno announces...*  
**Math and Science CSET Workshops**  
*for Prospective*  
**Mathematics and Science Teachers**

**Summer 2012 • <http://csufresno.edu/teachmathscience>**

The Mathematics and Science Teacher Initiative (MSTI) at Fresno State would like to announce the availability of a series of mathematics and science content workshops and courses for **prospective teachers of mathematics and science at the middle and/or high school levels**. Below and on the next three pages, you will find information about Single Subject math and science credentials, as well as information about the workshops. Visit the **MSTI Web site** for updates: <http://csufresno.edu/teachmathscience> (“Announcements”). Also, feel free to contact the MSTI Director, Dr. Carol Fry Bohlin, with any questions: [carolb@csufresno.edu](mailto:carolb@csufresno.edu)

### **Single Subject Mathematics and Science Credentials**

Note: If you are not in a teaching credential program or do not already hold a credential, you should first contact the Education Student Services Center at Fresno State for initial advising: 559-278-0300. For subject matter advising, contact Jaime Arvizu in the Science and Mathematics Education Center (SMEC) at (559) 278-5173.

- **Foundational-Level Math (FLM):** Allows you to teach through algebra and geometry at any grade level, but intended primarily for those who wish to teach middle school math – Algebra I and below. Single Subject (**SS**) credential holders (in an area other than mathematics) and Multiple Subject (**MS**) credential holders need to pass CSET: Mathematics Subtests I and II (#110 and 111) plus take the foundational-level mathematics teaching methods course. At Fresno State, this course is CI 161/FLM. The course may be offered in Summer 2012 (email May Lee to express interest in the course: [maylay@mail.fresnostate.edu](mailto:maylay@mail.fresnostate.edu)) and will possibly be offered in Spring 2013. Prerequisite: A passing score on at least one of the CSET math subtests or a Liberal Studies concentration in math.
- **Mathematics:** Allows you to teach all math courses through AP Calculus. SS teachers need to pass CSET: Math Subtests I, II, & III (#110-112) if they have not taken a CTC-approved mathematics subject matter preparation program. MS teachers must pass these three subtests and take CI 161/Math, which is offered each fall semester. Course prerequisites include passing at least two of the three required CSET math subtests.
- **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. Single Subject teachers need to pass CSET: Science Subtests I and II (#118 and 119). MS teachers need to pass the two subtests and take a SS methods course (CI 161/FLGS), which will be offered in Summer and Fall 2012.
- **Science:** Allows you to teach introductory life and general science; integrated science I, II, III; plus biology/life science (biology option), earth and planetary science (earth sciences option), chemistry (chemistry option), and/or physics (physics option). Authorization in more than one area is encouraged. A number of Single Subject (SS) science teachers add at least one other area of science to their initial credential to increase their instructional and employment options. Multiple Subject or non-science SS teachers who desire a SS Science Credential (or additional authorization area) must pass CSET: Science Subtests I and II (General Science) and CSET: Science Subtest III. (Additional authorizations can then be added by passing CSET: Science Subtest III in other areas of science.) Alternatively, MS and SS teachers can add a SS Science (Specialized) Credential by passing CSET: Science Subtests III and IV in the desired area(s). In addition to passing CSET: Science Subtests I-III (or III and IV), MS teachers would also need to take CI 161/Science (SS science teaching methods course) offered during the fall semester at Fresno State. (Those interested in taking this course should first contact Dr. David Andrews.)

## CSET Mathematics and Science Preparation Workshops & Teaching Methods Courses

*All workshops will be held on the campus of California State University, Fresno*

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### MSTI's CSET: Mathematics Subtest I-II (# 110-111) Workshops for Summer 2012

**Registration and Fees:** Because MSTI is a grant received from the CSU Chancellor's Office, the fee for each mathematics workshop is only **\$25** (for all sessions) for any Multiple Subject credential student (from any university), any credentialed teacher (Multiple or Single Subject), or any Fresno State student (Multiple or Single Subject), because they will be able to apply for their new math credential through Fresno State's credential office (Kremen Education, Room 151) after taking advantage of our workshops, courses, and CSET fee reimbursements. The workshop fee for those not able to apply for their initial or additional math (or science) credential through Fresno State's credential office (e.g., those currently earning an initial Single Subject math or science credential through another university) is \$150 (for all sessions). Registration is on a first-come, first-served basis. Space is reserved in the order of the date that payment is received. Mail a check (*made payable to SJVMP*) to May Lee c/o MSTI; 5005 N. Maple Ave., M/S ED 2; Fresno, CA 93740-8025; or bring a check to Kremen Education, Room 250, in an envelope addressed to May Lee by **June 6** (If space permits, we may be able to accommodate walk-in's with payment on June 11.) These workshops are scheduled to target the July 14 administration of the CSET.

**Parking:** Free (paid for by MSTI) for registered students. A parking permit will be distributed daily for the next class meeting. For the first class, registered students can pick up a parking pass in ED 250 on June 7 or 8 between 7:30 a.m. and 3:30 p.m.

### CSET: Mathematics Subtest I Overview (Algebra)

- **Instructor:** Dr. Comlan de Souza ([csouza@csufresno.edu](mailto:csouza@csufresno.edu))
- **Dates:** Monday-Friday – June 11 - 29, 2012
- **Time:** Noon - 3 p.m.
- **Location:** Fresno State – Peter's Building, Room 134 (Map: <http://www.fresnostate.edu/map/>)

### CSET: Mathematics Subtest II Overview (Geometry; Probability/Statistics)

- **Instructor:** Dr. Comlan de Souza ([csouza@csufresno.edu](mailto:csouza@csufresno.edu))
- **Dates:** Monday-Friday – June 11 - 29, 2012
- **Time:** 4 p.m. - 7 p.m.
- **Location:** Fresno State – Peter's Building, Room 134 (Map: <http://www.fresnostate.edu/map/>)

**Note:** We plan to offer a **CSET: Mathematics Subtest III (Calculus, History of Mathematics)** workshop during Fall Semester 2012. If you are interested in taking this 45-hour workshop, please email May Lee at [maylay@mail.fresnostate.edu](mailto:maylay@mail.fresnostate.edu). For an idea of the topics covered in the workshop, please check the MSTI archives of past workshop offerings: [www.fresnostate.edu/teachmathscience/archive.html](http://www.fresnostate.edu/teachmathscience/archive.html)

### MSTI's CSET: Science Subtest I-V Workshops at Fresno State

**Note #1:** The CSU Chancellor's Office funds the MSTI grant, allowing the science workshops to be offered **free of charge** to any Multiple Subject (MS) credential student (from any university), any credentialed teacher (Multiple or Single Subject), or any Fresno State student (Multiple or Single Subject), because they will be able to apply for their new credential through Fresno State's credential office (Kremen Education, Room 151) after taking advantage of our workshops and courses. The workshop fee for those

not able to apply for their initial or additional science (or math) credential through Fresno State's credential office (e.g., those currently earning an initial Single Subject math or science credential through another university) is **\$50/day**. Mail a check (payable to SJVMP) to May Lee; 5005 N. Maple Ave., M/S ED 2; Fresno, CA 93740-8025; or bring a check to Kremen Education Room 250 for May Lee (c/o SJVMP). For questions about these sessions, contact Dr. Brad Huff: [bradh@csufresno.edu](mailto:bradh@csufresno.edu)

**Note #2:** If you would like to reserve a seat for a particular workshop, you must email Brad Huff at [bradh@csufresno.edu](mailto:bradh@csufresno.edu) at least 5 days before the workshop. Registration is on a first-come, first-served basis. Registration is vitally important since a session will be cancelled if there are too few registrants.

### **CSET: Biology, Chemistry, Earth & Planetary Science, General Science, & Physics Workshops**

- **Instructors:** Dr. Brad Huff, Ms. Kelly Sullivan, and Dr. David Tinker
  - **Time:** 8 a.m.-4 p.m. on Orientation/General Science (CSET: Science Subtests I & II) overview days; 8 a.m.-3 p.m. on all other days (CSET: Science Subtests I-IV)
  - **Dates:**
    - June 2: **Chemistry and Earth & Planetary Science** (CSET subtests III and IV)
    - June 9: **Biology** (CSET subtests III and IV)
    - June 16: **Physics** (CSET subtests III and IV)
    - June 23: **General Science** (CSET subtests I and II)
- Note: The subject-specific workshops will also help you on Subtests I and II since they go into more depth in the science content areas.
- **Location:** Fresno State campus: Kremen Education Building, Room 10 (lower level, near elevator)
  - **Map:** <http://www.fresnostate.edu/map/>
  - **Parking:** Free in green and yellow lots on the Fresno State campus on Saturdays

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### **CI 161 - Foundational-Level Mathematics and Science Teaching Methods Courses**

**CI 161/FLM** – Required 3-unit methods class for prospective Foundational-level Mathematics teachers. Prerequisite: Must have passed at least one CSET: Mathematics subtest or have a strong mathematics background (e.g., 4+ classes toward a minor or major in mathematics). Those pursuing a full math credential must take CI 161/Math, which is offered during Fall Semester. Email the instructor of that course, Dr. Rajee Amarasinghe: [ramarasi@csufresno.edu](mailto:ramarasi@csufresno.edu), for more information. We may be able to offer this 3-unit course this summer (through Extension--\$75/unit) as well as in Spring 2013 (as a regular university course; non-students can register via Open University). If you are interested in taking this course during the summer or spring, please email May Lee as soon as possible at [maylay@mail.fresnostate.edu](mailto:maylay@mail.fresnostate.edu)

**CI 161/FLGS** – Required 3-unit methods class for prospective Foundational-level General Science teachers; not required for teachers currently holding a Single Subject credential. Those pursuing a full science credential in a content area such as biology or chemistry must take CI 161 (science section), which is offered each Fall Semester (permission of the instructor, Dr. David Andrews, is required: [davidan@csufresno.edu](mailto:davidan@csufresno.edu)). MSTI will be offering this 3-unit course during June 2012 as a CSUF extension course and will provide a >\$700 fee scholarship to non-students (who will pay only **\$75 a unit**) and a 100% fee scholarship to current CSUF students (so there is **no registration fee**). During Fall Semester 2012, non-students can register through Open University (fees apply) and current students can register online as usual (and should do so as soon as possible). **MSTI will provide a \$500 scholarship** to help defray Fall 2012 fees for all current students. Important: Current students and Spring 2012 credential students (only) who are interested in taking the summer CI 161/FLGS course must register through May

Lee. For fall, register online per usual: The schedule number for Dr. Nelson's Fall Semester 2012 - CI 161/FLGS class is **78156**. Non-students cannot register in advance for the fall class but must attend the first class to see if there is space available. If so, they may register through Open University (\$295/unit).

- **Instructors:** (a) *Summer 2012:* Katy Hieger ([khieger@aol.com](mailto:khieger@aol.com)); (b) *Fall 2012:* Dr. Fred Nelson
- **Dates:** (a) June 11-29, 2012; (b) Fall Semester 2012: August 23 - December 6, 2012
- **Days:** (a) M-F, 4:30-7:30 p.m. (may be earlier during weeks 2 & 3 if desired); (b) Thurs. 7-9:50 p.m.
- **Location:** (a) Kremen Educ. Rm. 10 (ED 10)–1st week & ED 54/58–Weeks 2-3; (b) ED 10 (tentative)
- **To register for the summer course and to receive course updates:** May Lee will email you the registration form for the summer course and will send you any additional course information: [maylay@mail.fresnostate.edu](mailto:maylay@mail.fresnostate.edu). Please also call May if you have any questions about the fees.
- **Course Perks:** Each student will receive over \$200 in science education books free of charge!

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**Additional MSTI Support for Prospective Math and Science Teachers**

**CSET Fees:** *MSTI will reimburse your test fees!* We'll need a copy of your receipt, a copy of your official test score(s), and our invoice form (obtain from May Lee: [maylay@mail.fresnostate.edu](mailto:maylay@mail.fresnostate.edu)). MSTI will reimburse up to two attempts per test (i.e., you can fail the first attempt and we will still reimburse your fee). The paperwork for your final CSET subtest fee reimbursement will be processed along with your credential application fee reimbursement.

**Applying for your Credential:** *MSTI will reimburse your credential application fee!* It's very important that you apply for your credential through Sherri Nakashima's office in the Kremen Education building, Room 151 (8 a.m.-5 p.m., M-F) once you have passed the necessary CSET subtests and CI 161. Sherri's email address is [sherrin@csufresno.edu](mailto:sherrin@csufresno.edu) Request the form from May Lee: [maylay@mail.fresnostate.edu](mailto:maylay@mail.fresnostate.edu)

**Professional Support:** MSTI provides *free memberships in professional associations* for students enrolled in math and science methods classes, plus *conference support* (CMC, CSTA, CUE) and *scholarships* for a variety of *workshops and institutes* for Fresno State credential students! Contact Dr. Carol Fry Bohlin for more information: [carolb@csufresno.edu](mailto:carolb@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://comet.cmpso.org/>

**CSET:**

- CSET test administration dates:

|                  |                   |                  |
|------------------|-------------------|------------------|
| July 14, 2012    | September 8, 2012 | November 3, 2012 |
| January 12, 2013 | March 9, 2013     | May 4, 2013      |

- To register, visit the CSET Web site: <http://www.cset.nesinc.com/>
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Please feel free to contact me at [carolb@csufresno.edu](mailto:carolb@csufresno.edu) or (559) 999-3188 (cell) for more information, and visit our Web site at <http://csufresno.edu/teachmathscience> for updates.

~ Dr. Carol Fry Bohlin • Professor and Director, Mathematics and Science Teacher Initiative (MSTI) • California State University, Fresno

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