



*The Mathematics and Science Teacher Initiative (MSTI) at California State University, Fresno announces...*

## Math and Science CSET Workshops & Teaching Methods Courses for Prospective Mathematics and Science Teachers

Fall 2012 • <http://csufresno.edu/teachmathscience>

The Mathematics and Science Teacher Initiative (MSTI) at California State University, Fresno is pleased to announce the availability of math and science CSET workshops and teaching methods courses for **prospective middle school or high school teachers of mathematics and science**. Below and on the next four pages, you will find information about Single Subject mathematics and science teaching credentials, as well as information about the workshops and courses. Visit the **MSTI Web site** for updates: <http://csufresno.edu/teachmathscience> (look under “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

To teach math or science in a departmentalized public school setting (typically in a middle school or high school) you need a Single Subject teaching credential. You may earn your initial credential in conjunction with your bachelor's degree or at any time after graduation. Visit [www.fresnostate.edu/kremen](http://www.fresnostate.edu/kremen) for instructions on applying to the credential program. For details on the Single Subject credential program, visit [www.fresnostate.edu/kremen/applications/ssreqs.html](http://www.fresnostate.edu/kremen/applications/ssreqs.html)

You may also add a math and/or science credential to an existing credential. If you already have a SS or a Multiple Subject (MS) credential, you will need to pass 2-3 CSET subtests ([www.cset.nesinc.com/](http://www.cset.nesinc.com/)) to demonstrate subject matter competency in the desired subject. Taking the subtests is also required if you are currently pursuing a MS credential and desire an additional teaching authorization or if you are a SS credential student who didn't take a state-approved course of study for prospective math or science teachers. See below for more details on available SS math and science credentials:

- **Foundational-Level Mathematics (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. Holders of Single Subject credentials (in an area other than math) and Multiple Subject credentials need to pass CSET: Mathematics Subtests I and II (#110 and 111) plus take a Foundational-Level Mathematics teaching methods course: CI 161/FLM. Fresno State plans to offer this course during Spring 2013. It may also be offered during Summer 2013. Email May Lee, MSTI Administrative Assistant, to express interest in this course: [maylay@mail.fresnostate.edu](mailto:maylay@mail.fresnostate.edu) Course prerequisite: A passing score on at least one of the CSET math subtests, a Liberal Studies concentration in math, or a substantial number of undergraduate mathematics courses.
- **Mathematics:** Allows you to teach math courses through AP Calculus. Single Subject–Mathematics credential students need to pass CSET: Math Subtests I, II, & III (#110-112) if a CTC-approved math subject matter preparation program has not been taken. Others (MS or SS teachers/credential students) must pass these three subtests and take CI 161/ Math (offered each fall). 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 CI 161/ FLGS, which will be offered in Fall 2012 and Summer 2013.
- **Science:** Allows you to teach introductory life and general science; integrated science I, II, III; plus either biology/life science (biology option), earth and planetary science (earth sciences option), chemistry (chemistry option), or physics (physics option). Single Subject (SS) science teachers are encouraged to add at least one other area of science to an initial credential to increase instructional and employment options. Multiple Subject or non-science SS teachers who desire a SS Science credential must pass CSET: Science Subtests I and II (General Science) and CSET: Science Subtest III in a desired science content area. (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 - [davidan@csufresno.edu](mailto:davidan@csufresno.edu))

---

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

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

---

### MSTI's CSET: Mathematics Subtest I-II (# 110-112) Workshops for Fall 2012

**Registration and Fees:** Because MSTI is funded by a grant received from the CSU Chancellor's Office, the fee for each mathematics workshop series (CSET Subtest I, II, or III) is only **\$25** if you are a Multiple Subject credential student (from any university), a Fresno State Single Subject credential student, or a credentialed teacher (Multiple or Single Subject). This special rate is available to those in these groups since you would be able to apply for your new math credential through Fresno State's credential office (Kremen Education, Room 100). You may also take advantage of other MSTI benefits, such as CSET fee reimbursements.

If you are not able to apply for your initial or additional math credential through Fresno State's credential office (e.g., if you are currently earning an initial SS math or science credential through another university), the fee per series is \$200. 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. Email May with any questions: [maylay@mail.fresnostate.edu](mailto:maylay@mail.fresnostate.edu) These workshops are scheduled to target the November 3 administration of the CSET.

**Parking:** Free (paid for by MSTI) for registered students. A parking permit will be distributed on Saturdays for the next class meeting. For the first class, registered students can pick up a parking pass in ED 250 from September 3 - September 6 between 8 a.m. and 4:45 p.m.

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

- **Instructor:** Dr. Oscar Vega ([ovega@csufresno.edu](mailto:ovega@csufresno.edu))
- **Dates (2012):** Tues./Sat.: September 4, 8, 11, 15, 18, 22, 25, 29, October 2, 6, 9, 13, 16, 20, 23
- **Time:** Tuesdays – 4:30-7:30 p.m., Q&A – 7:30-8:00 p.m.; Saturdays – 9:30 a.m. - 12:30 p.m.
- **Location:** Fresno State – **Tuesdays:** TBD (*May Lee will email the location for the September 4 class to all registered students*). **Saturdays:** Science II Room 207 (Map: <http://www.fresnostate.edu/map/>)

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

- **Instructor:** Dr. Oscar Vega ([ovega@csufresno.edu](mailto:ovega@csufresno.edu))
- **Dates (2012):** Wed./Sat.: September 5, 8, 12, 15, 19, 22, 26, 29, October 3, 6, 10, 13, 17, 20, 24
- **Time:** Wednesdays – 5:30-8:30 p.m., Q&A – 8:30-9:00 p.m.; Saturdays – 1:00-4:00 p.m. Q&A 4-4:30.
- **Location:** Fresno State – **Wednesdays:** TBD (*May Lee will email the location for the September 5 class to all registered students*). **Saturdays:** Science II Room 207 (Map: <http://www.fresnostate.edu/map/>)

#### CSET: Mathematics Subtest III Overview (Calculus; History of Math)

- **Instructors:** Dr. Adnan Sabuwala ([asabuwala@csufresno.edu](mailto:asabuwala@csufresno.edu)) & Dr. Agnes Tuska ([agnest@csufresno.edu](mailto:agnest@csufresno.edu))
- **Dates (2012):** Mondays and Thursdays, September 6 - October 22
- **Time:** Mondays – Q&A: 5:15-5:30 p.m., Instruction: 5:30-9:00 p.m.; Thursdays – Q&A: 5:15-5:30 p.m., Instruction: 5:30-9:00 p.m. (*Exceptions:* Sept. 6 and Sept. 13, Q & A – 9-9:15 p.m.)
- **Location:** Fresno State - **Mondays** in Science II Room 207 and **Thursdays:** TBA

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

The CSU Chancellor's Office funds Fresno State's MSTI grant, allowing the full-day science workshops to be offered **free of charge** if you are a Multiple Subject (MS) credential student (from any university), a credentialed teacher (Multiple or Single Subject), or a Fresno State student (Multiple or Single Subject), because you will be able to apply for your new credential through Fresno State's credential office (Kremen Education, Room 100) after taking advantage of our workshops, courses, and CSET fee reimbursements. The workshop fee is \$100 per day if you cannot or do not plan to apply for your initial or additional science credential through Fresno State's Credential Office (e.g., if you are currently earning an initial Single Subject math or science credential through another university). In this case, 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 payment, email May Lee at [maylay@mail.fresnostate.edu](mailto:maylay@mail.fresnostate.edu)

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
- **Location:** Fresno State campus: Kremen Education Building, Room 10 (lower level, near elevator)
- **Parking:** Free in green and yellow lots on the Fresno State campus on Saturdays
- **Dates:** The dates for Fall, Spring, and Summer 2012-2013 are located in the chart below:

Date (Saturdays)	Times	Topic(s)	Presenter(s)
August 25, 2012 (Meet in Kremen Education Rm. 10)	8 a.m. - 4 p.m.	<ul style="list-style-type: none"> <li>• <b>Introduction/Orientation</b></li> <li>• Credential application information</li> <li>• Overview of all science areas</li> <li>• Review for <b>General Science Subtests</b> (118 &amp; 119).</li> </ul>	Huff, Sullivan, Tinker, Bohlin, and Lee
<i>September 8</i>		<i>CSET Administration-Register by August 10 to avoid late fees. See <a href="http://www.cset.nesinc.com/CS_ann20122013testdates.asp">http://www.cset.nesinc.com/CS_ann20122013testdates.asp</a></i>	
October 6 (Education 10)	8 a.m. - 4 p.m.	Review for <b>General Science</b> Subtests I and II	Huff, Sullivan, Tinker, Bohlin, and Lee
October 13 (Room TBA)	8 a.m. - 3 p.m.	<b>Physics</b> for those needing more review for 118 and for those wanting to prepare for Subtests 123 and 127	Huff
October 20 (Education 10)	8 a.m. - 3 p.m.	<b>Biology</b> for those needing more review for 119 and those wanting to prepare for Subtests 120 and 124	Sullivan
October 27 (Education 10)	8 a.m. – 12 p.m.  12:30 p.m.–3 p.m.	<b>Chemistry</b> for those needing more review for 119 and those wanting to prepare for Subtests 121 and 125  <b>Earth &amp; Planetary Science</b> for those needing more review for 118 and those wanting to prepare for Subtests 122 and 126	Tinker
<i>November 3</i>		<i>CSET Administration - Register by October 5</i>	
November 17 (Education 10)	8 a.m. - 4 p.m.	Review for <b>General Science</b> Subtests I and II (118 & 119)	Huff, Sullivan, Tinker, Bohlin, and Lee

December 1 (Education 10)	8 a.m. - 3 p.m.	<b>Physics</b> for those needing more review for 118 and for those wanting to prepare for Subtests 123 and 127	Huff
December 8 (Education 10)	8 a.m. - 3 p.m.	<b>Biology</b> for those needing more review for 119 and those wanting to prepare for Subtests 120 and 124	Sullivan
December 15 (Education 10)	8 a.m. – 12 p.m.  12:30 p.m.–3 p.m.	<b>Chemistry</b> for those needing more review for 119 and those wanting to prepare for Subtests 121 and 125  <b>Earth &amp; Planetary Science</b> for those needing more review for 118 and those wanting to prepare for Subtests 122 and 126	Tinker
<i>January 12</i>		<b><i>CSET Administration – Register by December 14</i></b>	

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.

~~~~~

*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 each 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 CI 161/FLM next summer (through Extension--only \$75/unit due to a \$700 fee scholarship provided by MSTI; current students would receive a 100% fee scholarship) as well as in Spring 2013. Current students could register for the spring course online via [my.fresnostate.edu](http://my.fresnostate.edu). Non-matriculated students could register via Open University with instructor permission (\$295/unit). If you are interested in taking this course, please email May Lee 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 any Single Subject credential and not appropriate for students pursuing a full science credential in a content area such as biology or a physical science. These students must take CI 161/Science with Dr. Andrews. This course is offered each Fall Semester.

During Fall Semester 2012, current Fresno State students can register online via [my.fresnostate.edu](http://my.fresnostate.edu) for CI 161/FLGS. The schedule number for Dr. Nelson's class is 78156. Non-matriculated students can register for this course through Open University (\$295/unit; permission of the instructor is required). Current students and Spring 2013 credential graduates who are interested in taking the Summer 2013 section of CI 161/FLGS must register through May Lee. MSTI will provide a \$500 scholarship to help defray Fall 2012 fees for all current students. (Information about this scholarship will be provided during one of the first classes.) MSTI will also offer CI 161/FLGS during June 2013 as a CSUF extension course and will provide a \$700 fee scholarship to non-matriculated students (who will pay only \$75 a unit). Current CSUF students will receive a 100% fee scholarship. Contact May Lee if you wish to take CI 161/FLGS in June: [maylay@mail.fresnostate.edu](mailto:maylay@mail.fresnostate.edu)

**Summary Information:**

- **Instructor of CI 161/FLGS (Fall 2012):** Dr. Fred Nelson
- **Dates/Times:** Fall Semester 2012: Thursdays, August 23 - December 6, 2012; 7-9:50 p.m.
- **Location:** Kremen Education Building, Room 10 (ED 10)
- **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.

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

Note: Fee reimbursements are not available to students currently in (or planning to apply for) a Single Subject credential program at another university. All other students and teachers are eligible for these reimbursements.

**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 100 (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:** To register, visit the CSET Web site: [www.cset.nesinc.com/](http://www.cset.nesinc.com/)

**CSET test administration dates:**

|                   |                  |                  |
|-------------------|------------------|------------------|
| September 8, 2012 | November 3, 2012 | January 12, 2013 |
| March 9, 2013     | May 4, 2013      | July 13, 2013    |

.....



Mathematics & Science  
Teacher Initiative

If you have any questions, please feel free to contact Dr. Carol Fry Bohlin, Professor and Director, Mathematics and Science Teacher Initiative (MSTI), California State University, Fresno: [carolb@csufresno.edu](mailto:carolb@csufresno.edu) or (559) 999-3188 (cell).

For updates, please visit the MSTI website: <http://csufresno.edu/teachmathscience>