



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

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

**Fall 2015**

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 three 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: [www.fresnostate.edu/teachmathscience](http://www.fresnostate.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 (SS) 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 Single Subject or a Multiple Subject (MS) credential, you will need to either pass 2-3 CSET subtests ([www.cset.nesinc.com/](http://www.cset.nesinc.com/)) or take approved coursework in order to demonstrate subject matter competency in the desired subject matter area. Taking the CSET subtests is also required if you are currently pursuing a Multiple Subject 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 Single Subject 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 an FLM teaching methods course: CI 161/FLM. Fresno State will likely be offering this course during SP 2016 and may also offer it during SU 2016. Email May Lee if you are interested in taking this course: [mayl@csufresno.edu](mailto:mayl@csufresno.edu) Course prerequisite: Those desiring a full credential in mathematics--see below--need to take CI 161/Math in Fall 2016 and also contact a mathematics education advisor.

• **Mathematics:** Allows you to teach courses through AP Calculus. Single Subject–Math 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 either these three subtests or prescribed coursework plus take CI 161/Math (offered each fall). CI 161 course prerequisites include passing at least one of the CSET math subtests. For further guidance, please contact one of the mathematics credential program advisors: Drs. Rajee Amarasinghe ([ramarasi@csufresno.edu](mailto:ramarasi@csufresno.edu)), Lance Burger ([lburger@csufresno.edu](mailto:lburger@csufresno.edu)), and Agnes Tuska ([agnest@csufresno.edu](mailto:agnest@csufresno.edu)).

• **Foundational-Level General Science (FLGS):** Allows you to teach introductory and general science, introductory life science, and introductory physical science in grades K-12, as well as integrated science in grades K-8. Single Subject and Multiple Subject credential holders must pass CSET: Science Subtests I and II (#118 & 119) and take CI 161/FLGS, which will likely be offered in Spring 2016. If there is enough demand, the course will also be taught in Summer 2016. Email [mayl@csufresno.edu](mailto:mayl@csufresno.edu) if interested.

• **Science:** Allows you to teach introductory life and general science; integrated science I, II, III; and 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 employment options. Multiple Subject or non-science SS teachers who desire a SS Science credential must either take an approved course of study or 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.) In addition to passing CSET: Science Subtests I-III (or approved coursework in the content area), prospective science teachers 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 the instructor (Dr. Fred Nelson - [fnelson@csufresno.edu](mailto:fnelson@csufresno.edu)). Prospective science teachers should also make an appointment with the SS Science Credential Advisor, Dr. David Andrews: 278-5173.

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

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

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### **MSTI's CSET: Mathematics Subtests I-III Workshops**

**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 current or prospective Multiple Subject credential student (*from any university*), a current or prospective Fresno State Single Subject credential student, **or** a credentialed teacher (Multiple or Single Subject), because you are eligible to apply for a 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 reimbursement.**

If you are not able to apply for your initial or additional math credential through Fresno State's credential office, the fee per workshop series is \$200. This situation would apply if you are currently earning or plan to earn an initial SS math or science credential through another university. Registration is on a first-come, first-served basis. Workshops or courses may be cancelled if numbers are too low. Mail a check (*made payable to Fresno State Foundation*) 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: [mayl@csufresno.edu](mailto:mayl@csufresno.edu)

**Parking:** Free (paid for by MSTI) for registered non-students. Fresno State students are required to purchase a parking permit if they chose to park on campus. A parking permit will be distributed as needed for the following class meeting. For the first class, registered non-students can pick up a parking pass in Kremen Education, Room 250 between 8:30 a.m. and 4:30 p.m. when notified prior to the start of each workshop.

To become a **MSTI Participant**, complete this form: <http://tinyurl.com/MSTIParticipantForm>

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

- **Instructor:** Dr. Stefaan Delcroix ([sdelcroix@csufresno.edu](mailto:sdelcroix@csufresno.edu))
- **Dates:** Mondays and Saturdays: August 31 - October 17, 2015 (no class meeting on Monday: 9/7 - Labor Day)
- **Time:** Mondays: Instruction: 5:30-8:30 p.m.; Saturdays: Instruction: 9:00 a.m.-12:30 p.m.
- **Location:** Fresno State Campus: **Mondays** in Education Building, Room 400 (ED 400); **Saturdays** in Lab School, Room 171 (LS 171)
- **Registration Link:** <http://tinyurl.com/FSMSTI-CSETIMath>

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

- **Instructor:** Dr. Stefaan Delcroix ([sdelcroix@csufresno.edu](mailto:sdelcroix@csufresno.edu))
- **Dates:** Mondays and Saturdays: October 19 – Dec. 12, 2015 (no class meeting on Saturdays: 10/31 and 11/28)
- **Time:** Mondays: Instruction: 5:30-8:30 p.m.; Saturdays: Instruction: 9:00 a.m.-12:30 p.m.
- **Location:** Fresno State Campus: **Mondays** in Education Building, Room 400 (ED 400); **Saturdays** in Lab School, Room 171 (LS 171)
- **Registration Link:** <http://tinyurl.com/FSMSTI-CSETIIMath>

#### **CSET: Mathematics Subtest III (Calculus and the History of Mathematics)**

- **Instructors:** Dr. Adnan Sabuwala ([asabuwala@csufresno.edu](mailto:asabuwala@csufresno.edu))
- **Dates:** Tuesdays ONLY: September 1 - November 10, 2015
- **Time:** Tuesdays ONLY: Q&A from 5:15-5:30pm, Instruction: 5:30-8:30 p.m.
- **Location:** Fresno State Campus: Science Building, Room 139 (S 139)
- **Registration Link:** <http://tinyurl.com/FSMSTI-CSETIIIMath>

**Note:** visit [www.ctcexams.nesinc.com/PM\\_CSET.asp?t=111](http://www.ctcexams.nesinc.com/PM_CSET.asp?t=111) for more information about these tests.

## *MSTI's CSET: Science Subtest I-III 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 current or prospective Multiple Subject (MS) credential student (from any university), a credentialed teacher (Multiple or Single Subject), **or** a current or prospective Single Subject credential student at Fresno State, assuming you apply for your new credential through Fresno State's credential office (Kremen Education, Room 100). You are also eligible to take advantage of our courses and have your CSET fees reimbursed.

If you are currently earning (or plan to earn) a Preliminary Single Subject science credential through another university, the workshop fee is **\$150 per day**. In this case, mail a check (*payable to Fresno State Foundation*) to May Lee; 5005 N. Maple Ave., M/S ED 2; Fresno, CA 93740-8025, or bring the check to Room 250 in the Kremen Education building (NW corner of Maple and Shaw Ave.) for May Lee (c/o MSTI). For questions about payment, email May Lee at [mayl@csufresno.edu](mailto:mayl@csufresno.edu)

Some CSET Science Workshops are face-to-face on the Fresno State campus, but new this year, many MSTI CSET Science Workshops are now available ONLINE. The day before an ONLINE CSET Science Workshop you will be emailed a link to access the Workshop ONLINE. Also, to facilitate high quality audio/verbal interaction with the presenter, participants will need: a computer, tablet or smart phone, Internet access, and a headset or ear buds. After registering for an ONLINE CSET Science Workshop, you will be sent additional information.

\*\* **IMPORTANT Registration Note:** Reserving a place for a CSET Science Workshops is a two-step process: (1) Complete the **MSTI Participant Form**: <http://tinyurl.com/MSTIParticipantForm> and (2) email the **CSET Science Workshop Coordinator, Dr. Brad Huff**, at [bradh@csufresno.edu](mailto:bradh@csufresno.edu) so he knows you wish to attend and so he can provide you with the details.

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

- **Instructors:** Dr. Brad Huff, Ms. Kelly Sullivan, and Dr. David Tinker
- **Parking:** Free in green and yellow lots on the Fresno State campus on Saturdays
- **Location and Dates:** Please see chart below for more details:

Date in 2015 (Saturdays) Location	Times	Topic(s)	Presenter(s)
September 19 <b>ONLINE</b>	8 a.m. - 4 p.m.	Review for <b>General Science</b> Subtest I and II (118 and 119)	Huff, Sullivan, Tinker
September 26 <b>ONLINE</b>  * These workshops will be occurring simultaneously, so you will not be able to register for more than one workshop on this day.	8 a.m. – 3 p.m.	<b>Physics</b> for those needing more review for 118 and those wanting to prepare for Subtest (123)  <b>Biology</b> for those needing more review for 119 and those wanting to prepare for Subtest (120)	Huff  Sullivan
October 3 <b>ONLINE</b>	8 a.m. – 12 p.m.  12:30 p.m. – 4 p.m.	<b>Chemistry</b> for those needing more review for 119 and those wanting to prepare for Subtest (121)  <b>Earth &amp; Planetary Science</b> for those needing more review for 118 and those wanting to prepare for Subtest (122)	Tinker
October 17 <b>ONLINE</b>	8 a.m. - 4 p.m.	Review for <b>General Science</b> Subtest I and II (118 and 119)	Huff, Sullivan, Tinker
October 24 Education Building (ED), Room10	8 a.m. – 12 p.m.  12:30 p.m. – 4 p.m.	<b>Chemistry</b> for those needing more review for 119 and those wanting to prepare for Subtest (121)  <b>Earth &amp; Planetary Science</b> for those needing more review for 118 and those wanting to prepare for Subtest (122)	Tinker
November 14 ED 187	8 a.m. – 3 p.m.	<b>Physics</b> for those needing more review for 118 and those wanting to prepare for Subtest (123)	Huff
November 21 ED 10	8 a.m. – 3 p.m.	<b>Biology</b> for those needing more review for 119 and those wanting to prepare for Subtest (120)	Sullivan

*Test results release dates for the 2015–2016 program year are provided in the table below. Available for computer-based testing year-round by appointment, Monday through Saturday (excluding some holidays), on a first-come, first-served basis.*

Testing Period	Test Results Release Date
8/10/2015–9/6/2015	9/25/2015
9/7/2015–10/4/2015	10/23/2015
10/5/2015–11/1/2015	11/20/2015
11/2/2015–11/29/2015	12/18/2015
11/30/2015–12/27/2015	1/15/2016

## CI 161 - Mathematics and Science Teaching Methods Courses

**CI 161/FLM** – Required 3-unit methods class for prospective Foundational-level Mathematics (FLM) teachers. Prerequisite: Must have passed at least one CSET: Mathematics subtest or have a strong math background (e.g., 4+ classes toward a minor/major in mathematics or Liberal Studies concentration in math). 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.

**CI 161/FLGS** – Required 3-unit methods class for prospective Foundational-Level General Science teachers; 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. Note: In the Schedule of Classes, this course may be listed as CI 161/Biol, but all areas of science are covered).

Contact May if you wish to receive more information about other offerings of the CI 161/FLM, full Math, FLGS, and/or full Science teaching methodology course: [mayl@csufresno.edu](mailto:mayl@csufresno.edu)

### ~~ 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 (including Multiple Subject candidates at other universities, all current and prospective Fresno State students, and all credentialed 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 Alyssia Aguilar: [alaguilar@csufresno.edu](mailto:alaguilar@csufresno.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 is 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 (if required). This is the only compensation we require in return for the CSET reimbursements, low-cost workshops, and free professional memberships. Sherri's email address is [sherrin@csufresno.edu](mailto:sherrin@csufresno.edu) Request the form from May Lee: [mayl@csufresno.edu](mailto:mayl@csufresno.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, etc.) 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 can receive a free subscription to the 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) **Important note for CSET Math and Science test administration dates:** CSET computer-based tests are available by appointment, year-round, Monday through Saturday (excluding some holidays). The two testing centers closest to Fresno State are both Pearson Professional Centers: (1) Fresno: 7555 N. Palm Avenue Suite 205, 93711 and (2) Visalia: 5300 West Tulare Avenue Suite 108, 93277.



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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 [www.fresnostate.edu/kremen/teachmathscience/](http://www.fresnostate.edu/kremen/teachmathscience/)