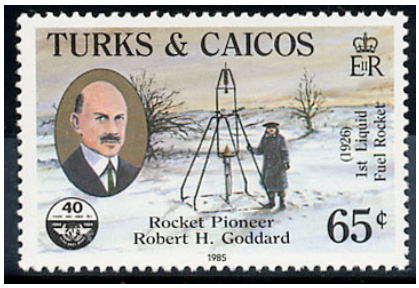

*The Mathematics and Science Teacher Initiative (**MSTI**) at*
***California State University, Fresno** announces...*

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

Spring 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 (look under "Announcements"). Also, feel free to contact the MSTI Director, Dr. Carol Fry Bohlin, with any questions: 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 for instructions on applying to the credential program. For details on the Single Subject credential program, visit 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/) 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 be offering this course during SP 2015 and may offer it during SU 2015. Email May Lee if you are interested in taking this course: mayl@csufresno.edu Course prerequisite: Those desiring a full credential in mathematics--see below--need to take CI 161/Math in Fall 2015 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), Lance Burger (lburger@csufresno.edu), and Agnes Tuska (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 be offered in Spring 2015. If there is enough demand, the course will also be taught in Summer 2015. Email 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). Prospective science teachers should also make an appointment with the SS Science Credential Advisor, Dr. David Andrews: 278-5173.

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 (#110-112) 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, Room100). **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 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: 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 each Monday and Thursday for the following class meeting. For the first class, registered non-students can pick up a parking pass in Kremen Education, Room 250 from February 23-27 between 8 a.m. and 4:45 p.m.

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

Spring 2015

CSET: Mathematics Subtest I Overview (Algebra)

- **Instructor**: Dr. Comlan de Souza (csouza@csufresno.edu)
- **Dates**: Mondays and Thursdays: March 2 – 26, 2015
- **Time**: Instruction: 5:30-8:30 p.m., Q&A: 8:30-9:00 p.m. on Thursdays
- **Location**: Fresno State Campus: Family and Food Science Building, Room 313
- **Registration Link**: http://tinyurl.com/FSMSTI-CSETIMath

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

- **Instructor**: Dr. Stefaan Delcroix (sdelcroix@csufresno.edu)
- **Dates**: Mondays and Thursdays: April 6 – 30, 2015
- **Time**: Instruction: 5:30-8:30 p.m., Q&A: 8:30-9:00 p.m. on Thursdays
- **Location**: Fresno State Campus: Family and Food Science Building, Room 313
- **Registration Link**: http://tinyurl.com/FSMSTI-CSETIIMath

Summer 2015

CSET: Mathematics Subtest I (Algebra)

- **Instructor**: Dr. Comlan de Souza (csouza@csufresno.edu)
- **Dates**: June 22 - July 10, 2015
- **Time**: (Monday-Friday) Instruction: 9:00 a.m. – 11:50 p.m., Q&A from 11:50 a.m. -12:20 p.m. on Wednesdays
- **Location**: Fresno State Campus: TBA
- **Registration Link**: http://tinyurl.com/FSMSTI-CSETIMath

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

- **Instructor**: Dr. Stefaan Delcroix (sdelcroix@csufresno.edu)
- **Dates**: July 13 - 31, 2015
- **Time**: (Monday-Friday) Instruction: 9:00 a.m. – 11:50 p.m., Q&A from 11:50 a.m. -12:20 p.m. on Wednesdays
- **Location**: Fresno State Campus: TBA
- **Registration Link**: http://tinyurl.com/FSMSTI-CSETIIMath

MSTI's CSET: Science Subtest I-IV 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. (See "Important Note" below about registration.)

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 SJVMP)* 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

** IMPORTANT NOTE: To reserve a seat for a particular SCIENCE workshop, May Lee (address above) must receive a **refundable deposit of $25 by 5:00 p.m.** on the **Tuesday (4 days)** before the workshop. The check (or cash) will be **returned to you** at the workshop or mailed shortly thereafter. **If you do not attend, the deposit will not be refunded.** If you are unable to attend, your deposit **will** be returned IF you notify May Lee by the Monday (5 days) before the workshop. (We had to implement this policy because there were a number of "no-shows," and this workshop is expensive to run.) In addition to taking or mailing your $25 deposit to May Lee, email the CSET Science Coordinator, Dr. Brad Huff, at bradh@csufresno.edu to let him know that you plan to attend the workshop and complete the **MSTI Participant Form**: **http://tinyurl.com/MSTIParticipantForm**. Dr. Huff can answer any questions you have about the workshop and will also provide you with more details (e.g., the schedule, the snacks, whether a session needs to be cancelled due to too few registrants, room change, etc.).

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**: See chart below.

Date in 2015 (Saturdays) **Location**	**Times**	**Topic(s)**	**Presenter(s)**
February 21 Education 153	8 a.m. - 4 p.m.	• **Introduction/Orientation** • Credential application information • Overview of all science areas • Review for **General Science Subtests** (118 & 119).	Huff, Sullivan, Tinker, Bohlin, and Lee

March 7, 2015		***CSET Administration-Register by Feb. 6 to avoid late fees.***	
March 14 Science II 107	8 a.m. - 4 p.m.	Review for **General Science** Subtests I and II (118 & 119)	Huff, Sullivan, Tinker, and Lee
March 21 Education 10	8 a.m. – 12 p.m. 12:30 p.m.–3 p.m.	**Chemistry** for those needing more review for 119 and those wanting to prepare for Subtests 121 and 125 **Earth & Planetary Science** for those needing more review for 118 and those wanting to prepare for Subtests 122 & 126	Tinker
March 28 Education 10	8 a.m. - 3 p.m.	**Biology** for those needing more review for 119 and those wanting to prepare for Subtests 120 and 124	Sullivan
April 4 Education 10	8 a.m. - 3 p.m.	**Physics** for those needing more review for 118 and for those wanting to prepare for Subtests 123 and 127	Huff
May 2, 2015		***CSET Administration - Register by April 3 to avoid late fees.***	
June 6 Education 10	8 a.m. - 4 p.m.	Review for **General Science** Subtests I and II (118 & 119)	Huff, Sullivan, Tinker, Bohlin, and Lee
June 13 Education 10	8 a.m. - 3 p.m.	**Physics** for those needing more review for 118 and for those wanting to prepare for Subtests 123 and 127	Huff
June 20 Education 10	8 a.m. - 3 p.m.	**Biology** for those needing more review for 119 and those wanting to prepare for Subtests 120 and 124	Sullivan
June 27 Education 10	8 a.m. – 12 p.m. 12:30 p.m.–3 p.m.	**Chemistry** for those needing more review for 119 and those wanting to prepare for Subtests 121 and 125 E**arth & Planetary Science** for those needing more review for 118 and those wanting to prepare for Subtests 122 & 126	Tinker
July 11, 2015		***CSET Administration – Register by June 12 to avoid late fees.***	

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, for more information. We are offering CI 161/FLM during Spring 2015 and perhaps in Summer 2015. Email the instructor of this course, Diana Herrington (dianaherringtonmath@gmail.com), for more information. Current students will register for the spring course online via my.fresnostate.edu. Non-matriculated students may register via Open University with instructor permission ($295/unit). See www.fresnostate.edu/cge/openuniversity for more information.

MSTI is offering CI 161/FLM during Summer 2015 as a Fresno State extension course and will provide a $700 fee scholarship to non-Fresno State students (who will pay only $75 a unit). Current Fresno State students will receive a 100% fee scholarship, so the course is FREE for them! All students planning to take the Summer 2015 section of CI 161/FLM must register through May Lee. Contact May if you wish to take CI 161/FLM Summer 2015 for more details: mayl@csufresno.edu

Spring 2015:

- **Instructor of CI 161/FLM:** Diana Herrington (dianaherringtonmath@gmail.com) Contact Dr. Rajee Amarasinghe for a permission number: ramarasi@csufresno.edu
- **Class Number:** 36197
- **Dates/Times:** Thursday, January 15 - May 14, 2015; 5:30-8:20 p.m.
- **Location**: Fresno State Campus: Science II, Room 207

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).

MSTI will consider offering a CI 161/FLGS class during June/July 2015 if there is enough demand. This class would be a Fresno State extension course, and a $700 fee scholarship will be provided to non-Fresno State students (who will pay only $75 a unit). Current Fresno State students will receive a 100% fee scholarship, so the course will be FREE of charge! All students planning to take the Summer 2015 section of CI 161/FLGS must register through May Lee. Contact May if you wish to take CI 161/FLGS during Summer 2015: mayl@csufresno.edu

Spring 2015:

- **Instructor of CI 161/FLGS:** Dr. Fred Nelson (fnelson@csufresno.edu; contact Dr. Nelson for a permission number)
- **Class Number:** 36509
- **Dates/Times:** Thursday, January 15 - May 14, 2015; 5:30-8:20 p.m.
- **Location**: Fresno State Campus--Kremen Education Building, Room 176

~~ 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 May Lee: mayl@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 Request the form from May Lee: 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

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 CSET test administration dates for **Science Subtests:** http://www.ctcexams.nesinc.com/test_info_CSET.asp?t=119 **Important note for CSET Math 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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FRESNO STATE
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 or (559) 999-3188 (cell). For updates, please visit www.fresnostate.edu/kremen/teachmathscience/

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