



*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 2016** _____

The Mathematics and Science Teacher Initiative (MSTI) at California State University, Fresno (funded by a grant from the CSU Chancellor's Office) is pleased to announce the availability of math and science CSET workshops as well as teaching methods courses for **prospective middle school teachers of mathematics and science** for Spring 2016. 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 Please contact the MSTI Director, Dr. Carol Fry Bohlin, with any questions: carolb@csufresno.edu

Single Subject Mathematics and Science Credentials

A Single Subject (SS) Teaching Credential authorizes the holder to teach in a departmentalized public school setting at any grade level, but the typical placement is in a middle or high school. Initial teaching credentials can be earned in conjunction with a bachelor's degree or (more typically) at any time after graduation. Visit www.fresnostate.edu/kremen for instructions on applying to the credential program at Fresno State. For details on the Single Subject credential program, visit www.fresnostate.edu/kremen/applications/ssreqs.html

If you are a prospective SS credential student who didn't take a state-approved subject matter preparation program for math or science teachers at a college/university, you will need to pass either two (for the FLM or FLGS credential) or three (for a full math or science credential) CSET subtests (www.cset.nesinc.com/) to demonstrate subject matter competency in math or science. You will also need to take the CSET subtests if you wish to add a Single Subject math and/or science credential to an existing Multiple or Single Subject credential. Also required is a related teaching methodology course. See below for more details on Single Subject math and science credentials:

• **Foundational-Level Mathematics (FLM):** Allows you to teach algebra, geometry, probability, statistics, integrated math, and general math 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 (#211 and 212) plus take an FLM teaching methods course. At Fresno State, this class is CI 161/FLM. Fresno State will be offering this course during Spring Semester 2016 (Course # 34291) and may offer it during Summer 2016 if there is enough demand. Email Administrative Assistant Alyssia Aguilar if you are interested in taking this course: alaguilar@csufresno.edu 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 (#211-213) 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 2016 (Class # 35696) on Thursdays from 5:30 p.m. - 8:20 p.m. If there is enough demand, the course will also be taught in Summer 2016. Email alaguilar@csufresno.edu if interested.

• **Science:** Allows you to teach introductory life and general science; integrated science I, II, III; and either (a) biology/life science (biology option), (b) earth and planetary science (earth sciences option), (c) chemistry (chemistry option), or (d) physics (physics option). || To teach science, you must take a CTC-approved university-based subject matter program in a particular content area of science OR pass CSET: Science Subtests I and II (General Science) and CSET: Science Subtest III in a desired science content area plus enroll in a SS credential program. If you already have a (non-science) credential, you need to take Subtests I-III and also CI 161/Science. Holders of one SS science credential are encouraged to add at least one other area of science to increase employment options. Additional authorizations can be added by passing Subtest III in other areas of science. Prospective science teachers should make an appointment to talk with the SS Science Credential Advisor, Dr. David Andrews: 278-5173.

MSTI's CSET: Mathematics Subtests I-II Workshops

Registration and Fees: During this academic year, we are piloting new online versions of our MSTI CSET workshops and offering them free of charge! MSTI also offers reimbursement of your CSET fees! Contact Alyssia Aguilar for the required forms: alaguilar@csufresno.edu.

CSET: Mathematics Subtest I Overview (Algebra)

- **Instructor:** Dr. Stefaan Delcroix (sdelcroix@csufresno.edu)
- **Dates:** Saturdays: February 20 and 27; March 5, 12 and 19; April 2, 9 and 16
- **Time:** 8:30 a.m. - 11:30 a.m.
- **Location:** Cyberspace
- **Registration:** Complete the "MSTI Participant" information form located at <http://tinyurl.com/MSTIParticipantForm> Questions? Email Alyssia Aguilar at alaguilar@csufresno.edu

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

- **Instructor:** Dr. Stefaan Delcroix (sdelcroix@csufresno.edu)
- **Dates:** Saturdays: February 20 and 27; March 5, 12 and 19; April 2, 9 and 16
- **Time:** 12:30 p.m. - 3:30 p.m.
- **Location:** Cyberspace
- **Registration:** Complete the "MSTI Participant" information form located at <http://tinyurl.com/MSTIParticipantForm> Questions? Email Alyssia Aguilar at alaguilar@csufresno.edu

Note: visit www.ctcexams.nesinc.com/test_info_CSET.asp?t=211 for more information about these tests.

MSTI's CSET: Science Subtests I-III Workshops

In addition to our face-to-face CSET Science workshops (held on the Fresno State campus), we are offering a series of online workshops to help serve a wider audience of prospective science teachers. To facilitate high quality audio/verbal interaction with the presenter, participants will need to use a headset or ear buds.

Registration: Reserving a place for a CSET Science Workshops is a three-step process:

- (1) Complete the MSTI Participant Information Form: <http://tinyurl.com/MSTIParticipantForm>
- (2) Complete the CSET Science Registration Form: <http://tinyurl.com/FSMSTI-CSETScience>
- (3) Email the **CSET Science Workshop Coordinator, Dr. Brad Huff**, at bradh@csufresno.edu so he can provide you with the details about the workshop(s) you are interested in.

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

- **Instructors:** Dr. Brad Huff, Ms. Kelly Sullivan, and Dr. David Tinker
- **Parking for Face-to-Face Sessions:** Free in green and yellow lots on the Fresno State campus on Saturdays
- **Note for Online Workshops:** The link for each online workshop will be sent the day before the workshop, so please make sure to check your email. If you don't receive the link, email Dr. Huff (bradh@csufresno.edu).
- **Location and Dates:** Please see chart below for more details:

2016 Dates (Saturdays) & Location	Times	Topic(s)	Presenter(s)
February 20 ONLINE	8 a.m. - 4 p.m.	Review for General Science Subtest I and II (118 and 119)	Huff, Sullivan, Tinker
February 27 ONLINE * 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.	Physics for those needing more review for 118 and those wanting to prepare for Subtest 123	Huff
	8 a.m. – 3 p.m.	Biology for those needing more review for 119 and those wanting to prepare for Subtest 120	Sullivan
	8 a.m. – 12 p.m.	Chemistry for those needing more review for 119 and those wanting to prepare for Subtest 121	Tinker
	12:30 p.m.– 4 p.m.	Earth & Planetary Science for those needing more review for 118 and those wanting to prepare for Subtest 122	
April 9 ONLINE	8 a.m. - 4 p.m.	Review for General Science Subtest I and II (118 and 119)	Huff, Sullivan, Tinker
April 16 (Face to face: Location TBA)	8 a.m. – 12 p.m.	Chemistry for those needing more review for 119 and those wanting to prepare for Subtest 121	Tinker
	12:30 p.m. – 4 p.m.	Earth & Planetary Science for those needing more review for 118 and those wanting to prepare for Subtest 122	
April 23 (Face to face: Location TBA)	8 a.m. – 3 p.m.	Biology for those needing more review for 119 and those wanting to prepare for Subtest 120	Sullivan
April 30 (Face to face: Location TBA)	8 a.m. – 3 p.m.	Physics for those needing more review for 118 and those wanting to prepare for Subtest 123	Huff
June 18 ONLINE	8 a.m. - 4 p.m.	Review for General Science Subtest I and II (118 and 119)	Huff, Sullivan, Tinker
June 25 (Face to face: Location TBA)	8 a.m. – 12 p.m.	Chemistry for those needing more review for 119 and those wanting to prepare for Subtest 121	Tinker
	12:30 p.m.– 4 p.m.	Earth & Planetary Science for those needing more review for 118 and those wanting to prepare for Subtest 122	
July 9 (Face to face: Location TBA)	8 a.m. – 3 p.m.	Biology for those needing more review for 119 and those wanting to prepare for Subtest 120	Sullivan
July 16 (Face to face: Location TBA)	8 a.m. – 3 p.m.	Physics for those needing more review for 118 and those wanting to prepare for Subtest 123	Huff

CSET Testing Period	Test Results Release Date
1/25/2016–2/21/2016	3/11/2016
2/22/2016–3/20/2016	4/8/2016
3/21/2016–4/17/2016	5/6/2016
4/18/2016–5/15/2016	6/3/2016
5/16/2016–6/12/2016	7/1/2016

CI 161 - Mathematics and Science Teaching Methods Courses at Fresno State

CI 161/FLM – Required 3-unit methods class for prospective Foundational-level Mathematics (FLM) teachers. The course (# 35696), which will be taught by Diana Herrington, will meet on Thursdays from 5:30 p.m. - 8:20 p.m. Desired prerequisite: Should 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 a 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.

CI 161/FLGS – Required 3-unit methods class for prospective Foundational-Level General Science teachers. The course (#34291) will be taught by Dr. Fred Nelson (fnelson@csufresno.edu) on Thursdays from 5:30 p.m.- 8:20 p.m. during Spring 2016. Those pursuing a full science credential in a content area such as biology or physics should take the Fall 2016 section of this course. For more information about this course, email the instructor, Dr. Nelson.

Contact Alyssia Aguilar if you cannot take one of these courses or to express interest in a CI 161 class held in the summer: alaguilar@csufresno.edu

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

CSET: The CSETs are computer-based tests that 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. To register, visit the CSET Web site: www.cset.nesinc.com

Science Subtest Information: www.ctcexams.nesinc.com/test_info_CSET.asp?t=119

Mathematics Subtest Information: www.ctcexams.nesinc.com/test_info_CSET.asp?t=211

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). MSTI will reimburse up to two attempts per subtest (i.e., you can fail the first attempt and we will still reimburse your fee). Fee reimbursements are available for all credentialed teachers, Multiple Subject teaching credential candidates at any university, and all Fresno State students. (If you have any questions about eligibility, please contact Alyssia.)

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 related teaching methodology course (if required). Sherri's email address is sherrin@csufresno.edu This is the only "compensation" that we request in return for the CSET fee reimbursements, the free workshops, and the free memberships in CMC and CSTA. Request the application form from Alyssia Aguilar: alaguilar@csufresno.edu (Note: Your final CSET subtest fee reimbursement will be processed along with your CTC credential application fee reimbursement.)

Professional Support: MSTI provides **free memberships in professional associations** (CMC and CSTA) for students enrolled in math and science methods classes, plus considerable **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/>



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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 or (559) 999-3188 (cell). For updates, please visit www.fresnostate.edu/kremen/teachmathscience/

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