



*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**  
**Summer 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 three **free, interactive, online mathematics and science CSET workshop series** for Summer 2016!

Below and on the next three pages, you will find information about (a) Single Subject mathematics and science teaching credentials, (b) the online workshop series, and (c) the Foundational-Level Mathematics and Foundational-Level General Science teaching methods courses (Spring 2017).

Visit the **MSTI Web site** for updates: [www.fresnostate.edu/teachmathscience](http://www.fresnostate.edu/teachmathscience)

Please contact the MSTI Director, Dr. Carol Fry Bohlin, with any questions: [carolb@csufresno.edu](mailto: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](http://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](http://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/](http://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 2017. Contact Administrative Assistant Alyssia Aguilar if you are interested in taking this course: [alaguilar@csufresno.edu](mailto: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](mailto:ramarasi@csufresno.edu)), Lance Burger ([lburger@csufresno.edu](mailto:lburger@csufresno.edu)), or 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 be offered in Spring 2017, most likely 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](mailto: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.

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### ***Free Online CSET Workshops!***

MSTI wants to serve as many teachers as possible throughout California, so we are offering these workshops online and free of charge! The workshops are offered in an interactive, online format in partnership with StudentNest. The teachers are all experienced professional educators and highly effective online instructors. Each workshop is recorded. Following the workshop, you will receive a link to access this recording so you can review selected topics again on your own. If you are already a credentialed teacher or a student at Fresno State, you can have your CSET fees reimbursed, too! Contact Alyssia Aguilar for the required form: [alaguilar@csufresno.edu](mailto:alaguilar@csufresno.edu)

### ***MSTI's CSET: Mathematics Subtests I-II Workshop Series***

**Registration for one or both online workshop series:** Complete the “MSTI Participant” information form located at <http://tinyurl.com/MSTIParticipantForm> and also please notify Alyssia Aguilar at [alaguilar@csufresno.edu](mailto:alaguilar@csufresno.edu)

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

- **Instructor:** Dr. Stefaan Delcroix ([sdelcroix@csufresno.edu](mailto:sdelcroix@csufresno.edu))
- **Dates** (2016): July 7-8, 11-14 (The workshop link will be sent by July 6 to all who register.)
- **Time:** 5 p.m.-9 p.m.

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

- **Instructor:** Dr. Stefaan Delcroix ([sdelcroix@csufresno.edu](mailto:sdelcroix@csufresno.edu))
- **Dates** (2016): July 15-22 (The workshop link will be sent by July 14 to all who register.)
- **Time:** 5 p.m.-9 p.m.

**Note:** visit [www.ctcexams.nesinc.com/test\\_info\\_CSET.asp?t=211](http://www.ctcexams.nesinc.com/test_info_CSET.asp?t=211) for more information about these tests.

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

**Registration:** To register for the online CSET Science Workshops, please (a): Complete the MSTI Participant Information Form at <http://tinyurl.com/MSTIParticipantForm> and also contact the **CSET Science Workshop Coordinator, Dr. Brad Huff**, at [bradh@csufresno.edu](mailto: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
- **Note:** The link for each online workshop will be sent no later than 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](mailto:bradh@csufresno.edu)).
- **Dates:** Please see chart below for more details:

Summer 2016 Dates (Saturdays)	Times	Topic(s)	Presenter(s)
June 18	8 a.m. – 4:30 p.m.	Review for <b>General Science</b> Subtest I and II (118 and 119)	Huff, Sullivan, Tinker
June 25	8 a.m. – 12 p.m. 12:30–4:30 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
July 9	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
July 16	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

## ***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 will likely meet on Thursdays from 5:30 p.m. - 8:20 p.m. during Spring Semester 2017. 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](mailto:ramarasi@csufresno.edu), for more information.

**CI 161/FLGS** – Required 3-unit methods class for prospective Foundational-Level General Science teachers. The course will be taught by Dr. Fred Nelson ([fnelson@csufresno.edu](mailto:fnelson@csufresno.edu)) on Thursdays from 5:30 p.m.- 8:20 p.m. during Spring 2017. 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](mailto: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](http://www.cset.nesinc.com)

**Science Subtest Information:** [www.ctcexams.nesinc.com/test\\_info\\_CSET.asp?t=119](http://www.ctcexams.nesinc.com/test_info_CSET.asp?t=119)

**Mathematics Subtest Information:** [www.ctcexams.nesinc.com/test\\_info\\_CSET.asp?t=211](http://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](mailto: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, for Multiple Subject teaching credential candidates at any university, and for 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** unless you are currently earning (or are planning to earn) a Single Subject teaching credential through another institution. For all others, 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 during the Academic Year and 7:30 a.m.-3:30 p.m. during the summer) once you have passed the necessary CSET subtests and related teaching methodology course (if required).

Please visit the MSTI website for the required application and reimbursement forms (under "CSET Workshops//Forms" on [www.fresnostate.edu/teachmathscience](http://www.fresnostate.edu/teachmathscience)).

Sherri's email address is [sherrin@csufresno.edu](mailto:sherrin@csufresno.edu) if you have any questions about applying for your credential. This is the only "compensation" we request in return for the CSET fee reimbursements and free workshops. Request the application form from Alyssia Aguilar: [alaguilar@csufresno.edu](mailto:alaguilar@csufresno.edu) (Note: Your final CSET subtest fee reimbursement will be processed along with your CTC credential application fee reimbursement.)

**Professional Support:** In addition to the free online CSET workshop series and reimbursement for CSET and credential application fees, 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](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/>

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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/)