



*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 2020**

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 **FREE, interactive, online mathematics and science CSET courses and workshops** for Fall 2020! Below and on the next two pages, you will find information about these courses/workshops, as well as about Single Subject mathematics and science teaching credentials.

Visit the **MSTI website** for updates: <http://fresnostate.edu/kremen/about/centers-projects/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 a 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 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 mathematics 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 is 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 a Single Subject math teaching methods course (e.g., CI 161).

- **Mathematics:** Allows you to teach courses through AP Calculus. Single Subject–Mathematics 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 take prescribed math coursework. All must take a Single Subject mathematics methods course such as CI 161 (Fall 2020; Class #74668; Wednesdays 5:30-8:20 p.m.). CI 161 course prerequisites include passing at least one of the CSET math subtests (or prescribed coursework). 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 Subtest I (#215) and take a Single Subject science teaching methods course (e.g., CI 161).

- **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 Subtest I (General Science) and CSET: Science Subtest II in a desired science content area plus enroll in a SS credential program. If you already have a (non-science) credential, you just need to take Subtests I-II and also a science methods course such as CI 161/Science (Fall 2020 – class #74956; Thursdays, 4:00 p.m.-6:50 p.m.). 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 II in other areas of science. Prospective science teachers should make an appointment to talk with the SS Science Credential Coordinator, Dr. David Andrews, at davidan@csufresno.edu or Single Subject Credential Advisor, Dr. Jaime Arvizu, at jaimea@csufresno.edu

### **Free Online CSET Courses/Workshops!**

MSTI wants to serve as many teachers as possible throughout California, so we are offering our courses/workshops online and free of charge! These courses/workshops are offered in a live, interactive format in partnership with StudentNest. The teachers are all experienced professional educators and highly effective online instructors. They often provide participants with resources and class notes. Each session is recorded. Following each class, participants receive a link to access this **recording** so that selected topics can be reviewed if desired. **Fresno State students** can have **CSET fees reimbursed** after applying for their new teaching authorization through Fresno State’s credential office.

#### ***MSTI's CSET: Mathematics Subtests I, II, III Fall 2020 Courses***

- **Instructor:** Dr. Stefaan Delcroix (sdelcroix@csufresno.edu)
- **Time:** 5:30 p.m. - 8:30 p.m. • **Location:** Cyberspace • **Registration:** <http://tinyurl.com/MSTIParticipantForm>

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

- **Dates (2020):** September 28; October 1, 5, 8, 12, 15, 19, 22 (Mondays and Thursdays)

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

- **Dates (2020):** October 29; November 2, 5, 9, 12, 16, 19, 23 (Mondays and Thursdays)

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

- **Recordings of Subtest III can be emailed to you. Please register using the link above to obtain the links.**

**Note 1:** Visit <https://tinyurl.com/CSET-Math> for more information about these tests.

#### ***MSTI's CSET: Science Subtests I-II Fall/Spring/Summer 2020-21 Workshops***

**Registration:** To register for the online CSET Science Workshops, please 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, 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, Mrs. Kelly Rexelle, 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).

Fall, Spring, Summer 2020-21 (Saturdays)	Times	Topic(s)	Presenter(s)
Sept. 12, Nov. 7, 2020 Feb. 27, June 5, 2021	8 a.m. – 4:30 p.m.	Review for <b>General Science</b> Subtest I (test code 215)	Huff, Rexelle, Tinker
Sept. 19, Nov. 14, 2020 March 6, June 12, 2021	8 a.m. – 3 p.m.	<b>Life Sciences</b> for those needing more review for Subtest I (215) and those wanting to prepare for Subtest II (217)	Rexelle
Sept. 26, Dec. 5, 2020 Mar. 13, June 19, 2021	8 a.m. – 12 p.m.	<b>Chemistry</b> for those needing more review for Subtest I (215) and those wanting to prepare for Subtest II (218)	Tinker
	12:30 p.m. – 4:30 p.m.	<b>Earth and Space Sciences</b> for those needing more review for Subtest I (215) and those wanting to prepare for Subtest II (test code 219)	
Oct. 3, Nov. 21, 2020 Mar. 20, June 26, 2021	8 a.m. – 3 p.m.	<b>Physics</b> for those needing more review for Subtest I (215) and those wanting to prepare for Subtest II (test code 220)	Huff

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

#### CSET Information

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 & (2) Visalia: 5300 West Tulare Ave. Ste. 108, 93277.

- To register, visit the **CSET Web site**: <http://www.cset.nesinc.com/>
- **Science Subtest Information**: <https://tinyurl.com/CSET-Science-Info>
- **Mathematics Subtest Information**: <https://tinyurl.com/CSET-Math>

#### CSET and CTC Credential Application Fee Reimbursements

Fee reimbursements are available for Fresno State students. To process the **CSET fee reimbursement**, the following are required: a copy of your CSET receipt(s), a copy of your official test score(s), and our invoice form (<http://bit.ly/ReimbForm>). MSTI will reimburse up to two attempts per subtest.

#### Professional Organization Membership and Conferences

In addition to the free online CSET workshop series and reimbursement for CSET and credential application fees, MSTI offers **free membership in a professional association** (CMC or CSTA) for students enrolled in a math or science methods course (CI 175, CI 176, or CI 161), plus considerable support for in-state **conference attendance** (e.g., CMC, CSTA, CUE, CA STEAM Symposium) for Fresno State 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 publication, *California Online Mathematics Education Times* (COMET). Check out back issues at <https://cmpso.org/comet/>

Please feel free to contact me at [carolb@csufresno.edu](mailto:carolb@csufresno.edu) or (559) 278-0237 for more information, and also visit our Web site at <http://csufresno.edu/teachmathscience> for updates.

~ Dr. Carol Fry Bohlin • Professor and Director, Mathematics and Science Teacher Initiative (MSTI)