



## **ESTEP Summer Boot Camps for High School Earth Science Teachers**

*New legislation states that all students must complete one credit of Earth and Space science in high school to graduate.* These boot camps will help deepen your understanding of the key content areas and 3-dimensional pedagogy. Along with our summer boot camps, these courses will help those of you working toward passing the required content MTLE exam to add additional licensure in 9-12 Earth and Space Science. ESTEP is a fast paced, one week, bootcamp style, regional workshop that focuses on a specific set of earth and space science benchmarks AND the teaching strategies you will need to start making the shift to science sense-making with your students.

- Deepen your understanding of earth science concepts through investigations!
- Utilize 3-dimensional strategies by DOING the science!
- Begin building confidence in your unit and lesson planning!
- Collaborate and discuss how phenomena and storylines relate to particular investigations!

Participant registration is on a first-come, first-served basis. Registration is considered complete when the registration google form is completed, and non-refundable registration fee is received by MnSTA. The non-refundable registration fee is \$200.00 and does not include lodging, meals or transportation. Participants can choose a stipend of \$300 OR 3 graduate credits (requires assignment completion in addition to attending boot camp) upon completion of the boot camp. The stipend OR graduate credit is paid for through a generous grant from the Minnesota Environment and Natural Resources Trust Fund.

### **Summer 2024 Boot Camps**

**Physical Geology/Systems at Fond du Lac Tribal and Community College (June 17 - 21)**

**Meteorology and Climate at St. Cloud State University (June 24 - 28)**

**Hydrology (Rocks and Waters) at MSU Mankato (July 15 - 19)**

**NEW! Earth Systems at TBD METRO AREA (July 22 - 26)**

Go to [https://www.mnsta.org/cgi/page.cgi/ESTEP\\_for\\_Secondary\\_Teachers.html](https://www.mnsta.org/cgi/page.cgi/ESTEP_for_Secondary_Teachers.html) to register!

#### **What participants are saying about ESTEP boot camps!**

*"The ESTEP bootcamp was a revitalizing experience. I especially valued working with a dedicated group of fellow educators with a wide range of experiences to draw from throughout our collaborative processing and planning. The mix of content knowledge and pedagogy lit a fire under me that will inspire my work for years to come."*

*"ESTEP is one of the only professional development opportunities I've been to that was tailored to exactly what I needed. I felt like a thirsty woman encountering an oasis. I was able to walk away saturated with new and needed content knowledge as well as the valuable experiences of more seasoned educators. Do I still have questions about Earth Science and how to teach it? Of course! But this bootcamp also reinforced that questions are a good thing. In addition to the rich info on content and pedagogy, ESTEP gave me a much needed dose of enthusiastic science teacher camaraderie."*

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