



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 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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