



FREE MOOC Online Course!

Inquiry Through Science & Engineering Practices

September 21-December 11, 2015
No Registration Fees or Tuition*

Register Here
Registration open until Sept 28th

This course provides a focus on inquiry instruction through the use of Science and Engineering Practices for grade K to 16 teachers in science education. Students will identify the components of inquiry in the context of Science and Engineering Practices as described in the NRC Framework for K-12 Science Education.

Course goals include development and implementation of inquiry-based science lessons using Science and Engineering Practices; exploration of current issues regarding inquiry-based instruction and classroom research; and increased understanding of the role of assessment in an inquiry-based science classroom.

Instructor

John Graves, EdD., MSSE/Intercollege Programs for Science Education Dept., Montana State University

Target Audience

The course is designed to serve science teachers or other professional science educators. The course provides methods for engaging students (K-16) in science inquiry instruction.

Text Books

Choose one of the following books:

- High School Teachers: Teaching High School Science Through Inquiry and Argumentation, by Llewellyn, 2nd Edition
Published by Corwin Press
ISBN: 9781452244457
- Middle School Teachers: Inquire Within: Implementing Inquiry-based Science Standards in Grade 3-8, by Llewellyn, 3rd Edition
Published by Corwin Press
ISBN 978-1452299280

Books can be obtained through the Montana State University Bookstore at 1-888-247-2546 or through online text book providers.

Computer Requirements:

Computer running Windows XP Service Pack 3 or newer or Mac OS X.5 (Leopard) or higher; CD-ROM drive; Internet access

Credit Possibilities:

A passing portfolio will allow eligibility for 1) MT OPI credits available through EU for \$30 fee, 2) waiver of MSSE 501 requirement (a different class would be taken in its place), or 3) 2 credit hours toward the MSSE degree (with no additional work if registered for MSSE 501 (tuition applies) during the Spring 2016 or Summer 2016 semester.

**The free version is not for credit*