

DAKOTA WESLEYAN UNIVERSITY
Department of Education

COURSE CODE: EDU 599

COURSE TITLE: SD STEM Ed 2020 Conference

SEMESTER AND YEAR: Spring 2020

TOTAL COURSE HOURS: 1

COST: \$70

CLASS LOCATION, MEETING TIME, AND DAY(S): Thursday, February 6 –
Saturday, February 8

**NAME AND TITLE OF FACULTY MEMBERS RESPONSIBLE FOR THIS
COURSE:**

Dr. Ashley Digmann
Dakota Wesleyan University
Education Department Chair
Assistant Professor of Mathematics

FACULTY CONTACT INFORMATION:

Phone: (605) 995-2891
Email: ashley.digmann@dwu.edu

COURSE DESCRIPTION: 2020 SD STEM Ed Conference college credit

DWU MISSION STATEMENT:

As an inclusive educational community, Dakota Wesleyan University provides a transformative learning experience that cultivates enduring intellectual growth, ethically grounded leadership, intentional faith exploration, and meaningful service.

STATE OR NATIONAL STANDARD REQUIREMENTS:

1. The NCTM and NSTA Curriculum and Evaluation Standards.
2. The South Dakota Science Content Standards.
3. The South Dakota Mathematics Content Standards.
4. Common Core State Standards

REGISTRATION INFORMATION

Registration must be completed online with a credit card at:
<https://store.dwu.edu/NonDegreeCredit> Select course 599: SD STEM Ed. 2020 Conference. Please also note that there is no withdrawal date for courses running for 21 days or fewer, therefore once you register you will not be able to withdraw from this course.

COURSE REQUIREMENTS

You must complete both requirements, 1 and 2, listed below.

1. You must attend 15 hours of sessions. The Friday night banquet may count as 2 hours. Please have the speaker sign the form after each session except the banquet.
2. You have two options (choose only one):

Option 1: Attend the feedback session on Saturday afternoon, at 3:30 (tentative time), and submit a reflection paper on the conference.

Option 2: Pick a standard from state or national standards and develop a lesson plan to demonstrate how a concept introduced at the conference can be used to address the standard(s). You may use any of the following standards:

- a) The NCTM and NSTA Curriculum and Evaluation Standards.
- b) The South Dakota Science Content Standards.
- c) The South Dakota Mathematics Content Standards.
- d) Common Core State Standards

The lesson plan must list the standard and how it is being met. Objectives, textbooks, and supplementary material to be used must be included in the plan. For science lessons that involve experimentation by students, you must incorporate controls, replicates, and statistics where appropriate. Further lesson plan guidelines are given below.

LESSON PLAN INSTRUCTIONS:

Select a teaching unit that includes an activity you learned about at the SDSTA/SDCTM conference. Develop the activity into a lesson plan that has sufficient detail that any other science/math teacher could implement it. Please do not copy a lesson plan from a textbook, as this will be your original work. (A sample format is attached to the syllabi). The plan should include:

1. The objectives to be accomplished by the students;
2. A detailed introduction (exploratory phase) on how the lesson would be initiated, including the questions that you plan to ask (along with the answers you expect);
3. A brief description of the activity;
4. A detailed description of the post activity discussion (or concept application phase), again including all questions that you plan to ask (and the answers you expect);
5. Prepare an assessment to test student mastery of your objectives.

DUE DATES AND SUBMISSION INFORMATION:

The conference activity sheet and lesson plans are due Friday, February 28, 2020. This will allow time for the professor to provide feedback and return lesson plans for revision, if necessary. Participants who do not submit assignments by the due date will not receive credit for the course.

Please return to Ashley Digmann, at Dakota Wesleyan University, 1200 W. University, Mitchell, SD 57301, or electronically (preferred) at Ashley.Digmann@dwu.edu. If submitting electronically, please attach lesson plans in Word or PDF form.

TRANSCRIPT INFORMATION

Transcript information can be found at: <https://www.dwu.edu/alumni-visitors/for-alumni/request-a-transcript>

Office of the Registrar, DWU 1200 West University Ave., Mitchell, SD 57301-4398.

DWU ACADEMIC HONESTY/PLAGIARISM POLICY:

No credit will be given if plagiarism or academic dishonesty occurs.

DWU ACADEMIC HONESTY/PLAGIARISM POLICY:

Students should refer to the student handbook for the academic integrity policy. Any violations of this policy may result in a zero on the particular assignment, quiz, or test, and possibly failure in the course.

TITLE IX:

In support of its mission, Dakota Wesleyan University is committed to maintaining a healthy and safe learning, living, and working environment that promotes responsibility and respect among all members and guests of the campus community. This is an environment in which no one is unlawfully excluded from participation in, denied the benefits of, or subjected to discrimination in any university program or activity on the basis of gender, sex, sexual orientation, sexual identity, gender identity, or gender expression. Individuals wishing to discuss a Title IX issue or file a formal complaint should contact the Title IX Coordinator.

John Kippes, Director of Student Life

Office: Rollins Campus Center,

Phone: (605) 995-2160

Fax: (605) 995-2892

john.kippes@dwu.edu

Academic Success and Career Services Center

The Academic Success and Career Services Center is located on the second floor of the McGovern Library. This center offers a wide range of academic support and career planning services. Services include selecting or changing a major, preparing for standardized tests, applying to graduate schools, tutoring, writing assistance, identifying strengths and talents, career preparation, and many more. The center is also a place for students to learn, collaborate, and study. For more information and/or questions, please contact:

Kristy Zink, Academic Success and Career Services Coordinator
Office: McGovern Library, Room 202
Phone: (605) 995-2904

Student Disability Services and The Americans with Disabilities Act Statement:

Any student who believes she or he may need academic accommodations or access accommodations based on the impact of a documented disability is encouraged to contact and register with Student Disability Services no later than three weeks after the first day of classes. Student Disability Services is the official office to assist and support students in the process of disability verification and coordination of appropriate and reasonable accommodations. Students currently registered with Student Disability Services must obtain new accommodation letters each semester.

The Americans with Disabilities Act (ADA) guarantees the privacy of students with disabilities.

For more information, questions, and/or accommodation arrangement, please contact:

Dustin Wheeler, Office of Student Disability Services
Office: McGovern 231
Phone: (605) 995-2931
Fax: (605) 995-2660
Dustin.Wheeler@dwu.edu

Lesson Plan Format

Remember: No lessons copied directly from a text or from another person. (You may use these lessons as a guide but please make it your lesson.)

Your lesson plans should be prefaced by a title page that includes:

1. Your name and school district.
2. The standard or standards you are addressing.
3. The grade level you are teaching.

For each lesson, include:

1. Standard(s) being used
2. Objective(s)
3. Materials
4. Procedure/Activities
5. Assessment of Student Learning
6. Closure
7. Follow-up or Homework (Optional)

Remember that science lessons that involve student experimentation must incorporate controls, replicates, and statistics where appropriate.