

FLP VIII: Growing with STEAM Course Syllabus

COURSE AND NUMBER CREDIT HOURS	Education 600 Food, Land, and People VIII Prerequisite: None 1 Professional Development Credit
FEES	Registration Fee to NDFB \$ 50.00 NDSU credit recording fee \$50.00
INSTRUCTOR:	Virginia Deitz, Phone: 701-799-1825 email: deitzv@gmail.com Jill D. Vigesaa, Phone 701-799-5488 email: jill.vigesaa@gmail.com
TEXTBOOKS:	Food, Land & People Resources for Learning, FLP STEM Lessons, www.agclassroom.org Curriculum Matrix, www.foodlandpeople.org , www.ndaginclassroom.org
DESCRIPTION:	This course will allow teachers to apply applicable Food, Land, and People (FLP) STEAM lessons, in addition to National Ag Matrix STEAM lessons in their curriculum during the school year. This will include real world application of STEAM. Participants will explore opportunities for art to naturally fit into the STEM arena as an applied subject. The course will provide an overview of strategies, materials, curriculum development, and research related to assisting the Pre-K- 12 th grade educators to better understand the interdependence of agriculture, the environment, and human needs through lessons in multiple curriculum areas: language arts, science, health, art, consumer education, mathematics, social studies, geography, and more. The information will be given as an online correspondence course.
NATIONAL BOARD FOR PROFESSIONAL TEACHING STANDARDS:	The National Board for Professional Teaching Standards seeks to identify and recognize teachers who effectively enhance student learning and demonstrate a high level of knowledge, skills, abilities and commitments. This course aligns with all 5 of those standards.
OBJECTIVES:	<ol style="list-style-type: none">1. Understand how agricultural concepts can be integrated into the curriculum by applying STEAM activities with real world applications. To heighten the awareness level of how agriculture impacts our raw resources, processing, and our relationship with food, land, and people.2. Use STEAM focus lessons available in FLP and the AITC Curriculum Matrix, guide group activities (large, small, and cooperative), provide for individual differences and learning styles, and evaluate students' learning.3. Develop understanding, thinking skills, creativity, and improve communication skills in the learning environment with students.4. Use FLP lessons and the AITC Curriculum Matrix to see how they integrate curriculum and reference the lesson alignment to the National Core Standards. Develop an understanding of the relationship and ties to the ND State Standards.5. Identify and use learning activities to facilitate healthy food choices and gain perspectives regarding the connections of food, land, and people.

6. To use instructional media from AITC Matrix, FLP lessons and other related materials.

TOPICAL
OUTLINE:

Day #1 – 8:30 am – 4:30 pm
AITC Curriculum Matrix – www.agclassroom.org (4 hours)
Review of matrix, an online, searchable, and standards-based curriculum map for K-12 teachers. The Matrix contextualizes national education standards in science, social studies, and nutrition education with relevant instructional resources linked to Common Core Standards. Feature current lesson in hands-on instruction.
Lunch (.5 hr)
Lesson activity for educators continued (1.5 hours)
Tour/Hands on Exploration utilizing local resources (2 hours)
Day #2 – 8 am – 4 pm
Continuation of connections to National AITC Matrix (2 hours)
Local Connections: Speakers/Resources available to educators (2 hour)
Lunch (.5 hr)
ABC's of Food, Land & People with current issue (2.5 hour)
Final journaling activity and course evaluation (1 hour)

REQUIREMENTS:

1. **Attendance:** Attend all classroom instruction
2. **Reflective Journal:** Participants will complete a reflective journal. Journals will include reflection on the presentations and application in the educator's classroom or position.
3. **Participation:** Participants are required to be actively engaged during the class sessions through the questioning of processes and practices presented along with productive discussions about integration into the classroom curriculum, while addressing grade level standards and benchmarks.
4. **Post Class Assignments:** Participants must complete a course of independent work and an additional assigned project, to be submitted within two weeks of the conclusion of the institute.

EVALUATION:

The students will be evaluated on the completion of the requirements with point values stated. The attached course rubric will be utilized for individual student assessment and letter grading.

STUDENTS WITH
DISABILITIES:

Any students with disabilities or other special needs, who need special accommodations in this course are invited to share these concerns or requests with the instructor as soon as possible.

ACADEMIC
HONESTY
STATEMENT:

All work in this course must be completed in a manner consistent with NDSU University Senate Policy, Section 335: Code of Academic Responsibility and Conduct
https://www.ndsu.edu/education/teacher_education/academic_integrity_statement/