

Summer Ag Institute 2021

EDUC 2000, 1 Professional Development Credit

COURSE AND NUMBER	Education 2000 - Summer Ag Institute 2021 Prerequisite: None
CREDIT HOURS	1 Professional Development Credit
FEES	\$50 Credit Fee payable to NDSU
INSTRUCTORS	Gail Benson, M.Ed., Phone: 936-336-5215 email: gailbenson51@gmail.com Jill Vigesaa, Phone 701-799-5488 email: jill.vigesaa@gmail.com
RESOURCES	AITC Curriculum Matrix lessons http://www.agclassroom.org/ . Food, Land, and People Curriculum, ND Ag Dept., NDSU STEM
DESCRIPTION	This course is designed to provide educators with professional development training in agricultural literacy through online workshops and demonstrations provided by a variety of nationally recognized guest speakers from organizations such as AITC, Food Land and People, ND Ag Dept, Journey 2050 and others. This course will utilize the elementary level workshops/concepts with additional lessons and resources from the National Agricultural Literacy Curriculum Matrix. The Matrix is an online, searchable, standards-based curriculum map for K-12 teachers. The course will provide an overview of strategies, materials, curriculum development, and research related to assisting the Pre-K-12th grade educators to better understand the interdependence of agriculture, the environment, and human needs through lessons in multiple curriculum areas: reading, writing, science, health, consumer education, mathematics, social studies, geography, STEM and more.
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 the high level of knowledge, skills, abilities and commitments. This course aligns with all 5 of those standards. <ol style="list-style-type: none">1. <i>Teachers are committed to students and their learning.</i>2. <i>Teachers know the subjects they teach and how to teach those subjects to students.</i>3. <i>Teachers are responsible for managing and monitoring student learning.</i>4. <i>Teachers think systematically about their practice and learn from experience.</i>5. <i>Teachers are members of learning communities.</i>
OBJECTIVES	1. Provide educators with current agricultural professional development training by National Center for Agriculture Literacy (NCAL) curriculum specialists to understand larger concepts such as ecosystem balance, diversity, sustainability, watersheds and community.

2. Use workshops available through AITC, FLP, ND Dept of Ag, etc. with current educational concepts to help teachers with group activities (large, small, and cooperative), provide for individual differences and learning styles, and evaluate students' learning using agricultural content.
3. Develop understanding, thinking skills, creativity, and improve communication skills in the learning environment with students.
4. Use Workshops to demonstrate how they integrate into the current curriculum.
5. Identify and use appropriate learning activities to integrate social concerns and social perspectives regarding food, land, and people issues.

TOPICAL OUTLINE

All sessions are tentatively scheduled from 9:00-5:00PM CST

Day #1 Tuesday June 22

9:00 – 10:00 Welcome and introduction to our Ag Institute 2021: Jill Vigesaa. Course requirements and philosophy will be presented.

10:00-12:00 Build a Brain, Gail Benson, M.Ed. Students will participate in lecture and activities highlighting how children learn and how Ag Literacy can be integrated into the curriculum. Based on Howard Gardner's (Harvard) research on effective curriculum and cognitive development, the Theory of Multiple Intelligences

12:00-1:00 Review, Reflection and Lunch: Gail Benson

1:00 – 4:00 Feeding the World with Agricultural Literacy: Lynn Wallin, M.Ed. The National Agricultural Literacy Curriculum Matrix is an online, searchable, and standards-based K-12 curriculum resource that contextualizes science, social studies, and nutrition within agricultural concepts. In this session, participants will explore Matrix resources that engage students in investigations of our food and fiber system and help develop an awareness and understanding of how agriculture impacts our daily lives.

Lynn Wallin is an Education Specialist for the National Center for Agricultural Literacy (NCAL) at Utah State University and a Gifted and Talented Specialist for Cache County School District. Prior to her work with NCAL, Lynn was an Education Specialist for Utah Agriculture in the Classroom and taught grades 1, 2, 3, and 4 in Utah and Arizona. Lynn received a Bachelor of Science degree in Elementary Education from Brigham Young University and a Master of Education degree from Utah State University

4:00- 5:00 **Reflection and Review:** Gail Benson

Day #2 Wednesday June 23

9:00-12:00 **Journey 2050: Engaging Students in World Food Sustainability:** Tessa Matuszak, M.S.

This free, cross-curricular program engages students in discussions about sustainably feeding the world. Functional in a virtual or in-person setting, the seven-level game

and program meets educational standards for science, geography, social studies, STEM, career and technical education and agriculture classes. Lesson topics include: sustainability, soil, water, economy, geography, culture, careers, agriculture technology and project-based learning. It is geared to grades 7-12, is free of charge and is compatible on all devices.

Tessa Matuszak is the Program Manager for National Agriculture in the Classroom Organization. As Program Manager for NAITCO, she assists with the expansion and support of the Journey 2050 and Farmers 2050 educational platforms developed by Nutrien in the U.S. To reach her with questions about Journey 2050 or Farmers 2050, email programs@naitco.org Tessa obtained her bachelor's degree from Cal Poly, San Luis Obispo, CA in Dairy Science and Agribusiness, and master's degree from SUNY Oswego, Oswego, NY in Career and Technical Education.

12:00-1:00 **Review, Reflection and Lunch:** Gail Benson, M.Ed.

1:00- 3:00 **ND Ag Resources:** Kara Haff. North Dakota is a prominent member of the food producing world, serving as the number one provider of many commodities we use in our everyday life. As such, education is of utmost importance. Participants will learn about the vast array of resources available for use in their classrooms to integrate ag into the daily curriculum.

Kara Haff, ND Dept of Agriculture

3:00 – 4:30 **Barnyard CSI:** Lindsey Leker, Ph.D. Solve the mystery of the barnyard and find out “who dun it” while learning what actually happens behind the scenes on the farm.

Lindsey Leker earned her PhD in Educational Foundations of Research in 2017. She also has a Master's degree in Cognitive Neuroscience. Lindsey is currently a 4-H Youth Development Specialist in STEM at North Dakota State University where she plans and delivers dynamic youth programs focused on positive youth development. Before her work at NDSU, Lindsey taught as a professor of psychology at Minnesota State University Moorhead and Mayville State University.

4:30 – 5:00 Review, Reflection and Wrap-up, Gail Benson

REQUIREMENTS

1. **Attendance:** Attend all classroom instruction
2. **Reflective Journal:** Participants will complete a reflective journal entry for each presentation. Journals will include reflection on the presentation 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. **Class Assignments:** Participants must complete a Curriculum Connections Worksheet and final reflection, within two weeks of the conclusion of the institute.
5. **Outside Assignment:** Complete Curriculum Connections Worksheet on Summit and Matrix connections.

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/