

Viewpoints in Environmental Studies:
Alaska Energy Utility Lecture Series – ENVI F150
University of Alaska Fairbanks | Bristol Bay Campus
Spring 2021 1 credit

Instructor Information

Name: Mark Masteller, Asst. Prof. Sustainable Energy, UAF-Bristol Bay
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Name: Patty Eagan, UAF-Alaska Center for Energy and Power
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Course Meeting Information

Dates: Jan. 15-Apr. 30 **Day and Time:** Friday 11:00am-12:00pm
Class Location: Online, synchronous class using Blackboard Collaborate

Course Description

Lecture series introduces students to operations, management and employment in Alaska's rural and urban electric utilities. Lecturers from a variety of perspectives related to utility management (small and large utility, agency, project development and integration, training/education, utility customers, etc.) will share their expertise. Discussion and reflection/synthesis will be encouraged.

Course Prerequisite/Co-requisites: None – students do not need to have any previous knowledge.

Required Text and Learning Materials: **No required text** – materials will be provided by the instructor and available through Blackboard.

Student Learning Outcomes: In this class, learning requires partnership. At the end of this course, if you actively engage in class, study outside of class, complete assignments and prepare for exams, you will be able to:

1. Understand the basic management, operations and maintenance of rural and urban Alaska electric utilities
2. Describe the various fuels Alaska utilities currently use, the electrical loads a utility must satisfy, and the daily and seasonal changes in energy demand
3. Consider the challenges and opportunities faced by utilities when implementing energy efficiency measures or integrating renewable energy systems into existing (diesel) systems
4. Understand the history of and current implementation of the Power Cost Equalization program
5. Understand the impact of relatively large energy users, such as water/wastewater utilities, schools and other community buildings, on a small electric utility
6. Describe job and career opportunities related to rural and urban electric utilities

Instructional Methods

This course will primarily include lectures, discussions, and reflection, and may include homework and additional reading.

Grading

This class is graded on a Pass-Fail scale. Grading will be based upon a percentage of the total points earned for assignments and attendance. You must achieve a score of 70% or better to pass. Your grade will be determined as follows:

Attendance and participation.....40%

Students are expected to attend all class sessions, take notes and actively participate in group discussions

Class exercises and review	50%
Homework assigned as needed.	
Final Exam.....	10%

Assignments and Course Schedule

The instructor reserves the right to change the assignment requirements and exam dates depending upon class progress. Assignment due dates are shown on the course schedule.

Course Policies

Classroom Rules

1. Students are expected to comply with the UAF Student Code of Conduct: <https://uaf.edu/deanofstudents/student-code-of-conduct/>
2. Cellphones are to be turned off and put away. Do not take them out during class. If used, laptops and tablets may only be used to take notes.
3. Be on time. Late entrances disrupt others.
4. No eating in class. Beverages in closed containers are acceptable.
5. Please respect the rights of others to learn. Behaviors that distract attention from lecture or class activities will not be tolerated. Conduct that unreasonably interferes with the learning environment or that violates the rights of others is prohibited by the standards and guidelines collectively described as the UA Student Code of Conduct.
6. No children, pets, or guests are permitted to attend class.

Attendance

Regular attendance is necessary for success at the collegiate level. You are expected to actively participate in all classroom sessions. Make sure that you are prompt and that you stay for the scheduled class time. Experience has shown that due to the time constraints of this course your grade will be jeopardized if you are absent from class.

Blackboard

Blackboard will be used for announcements and posting of your grades.

University Policies and Services

Academic Integrity

Academic integrity is a basic principle that requires that students only take credit for ideas and efforts that are their own. Cheating, plagiarism, and other forms of academic dishonesty are defined as the submission of materials in assignments, examinations, or other academic work that is based on sources prohibited by the faculty member. Substantial portions of academic work that a student has submitted for a course may not be resubmitted for credit in another course without the knowledge and advance permission of the instructor. For more information, refer to the UAF Student Code of Conduct: <https://uaf.edu/deanofstudents/student-code-of-conduct/>

Student Protections and Services

Every qualified student is welcome in my classroom. As needed, I am happy to work with you, disability services, veterans' services, rural student services, etc to find reasonable accommodations. Students at this university are protected against sexual harassment and discrimination (Title IX), and minors have additional protections. As required, if I notice or am informed of certain types of misconduct, then I am required to report it to the appropriate authorities. For more information on your rights as a student and the resources available to you to resolve problems, please go the following site: www.uaf.edu/handbook/.

COVID-related Policy

Students should keep up-to-date on the university's policies, practices, and mandates related to COVID-19 by regularly checking this website: <https://sites.google.com/alaska.edu/coronavirus/uaf/uaf-students?authuser=0>

Further, students are expected to adhere to the university's policies, practices, and mandates and are subject to disciplinary actions if they do not comply.