

AGRICULTURAL SYSTEMS MANAGEMENT 7370

1 Graduate Semester Hour
Summer 2016

Instructor:

Leon G. Schumacher
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Agricultural Systems Management
207 Agricultural Engineering
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Energy in Today's Classroom

Course Description

This course is designed for educators who instruct students at middle and high school level about electrical energy. The course will consist of fifteen hours of classroom contact, to include speakers, educational tours, and content lecturing which will include areas of Energy Basics, Energy Sources, Economics and Energy Production, Energy Efficiency and Conservation, and Power Generation and Transmission.

Course Objectives

- Increase their understanding of electricity from generation to consumption.
- Define different types of energy sources in the United States.
- Differentiate the relationships between production and consumption as it relates to economics.
- Define energy efficiency and energy conservation.

Course Materials

Curriculum will be given to each participant at the beginning of class.

How This Class Works

Teachers will come away from this class with a much better understanding of the electrical industry. This understanding will give teachers the opportunity to give more factual information to students in the classroom setting. Teachers will be given hands-on demonstrations of electrical teaching aids that can later be used in their classrooms. The 15 hours will include lecturing; guest speakers, industry leaders, hands-on materials, and off-site learning labs.

Credit Hours

One graduate credit will be given for full completion of course. One additional credit will be given upon completion of additional project selected by the student and agreed upon by the instructor.

Prerequisites

Participants must currently be a certified educator actively teaching science, Agricultural Science, or related subject, in middle or high school.

Course Evaluation

- Quiz and classroom participation will be required.
- Full attendance and participation and learning labs are required.
- Final assignment will be to submit a written paper that will include how you will use this class including teaching aids, curriculum, lectures, and tours in your content area classroom.

Grading

90 - 100 = A	50% grade from lecture
80 - 89 = B	50% grade from lab
70 - 79 = C	+ / - grading will be used
60 - 69 = D	
0 - 59 = F	

Materials submitted after the specified due date will be subject to a minimum of a seven percent deduction (one letter grade).

Instructor

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Attendance Policy

An absence can be excused only if the instructor is notified BEFORE the class session that is missed. Call **573-882-2126** or send an e-mail to SchumacherL@missouri.edu to announce and explain any absence.

ADA Policy

If you anticipate barriers related to the format or requirements of this course, if you have emergency medical information to share with me, or if you need to make arrangements in case the building must be evacuated, please let me know as soon as possible.

Office location: 207 Ag. Engineering
Office hours: Call for appointment

If disability related accommodations are necessary (for example, a note taker, extended time on exams, captioning), please register with the Office of Disability Services (<http://disabilityservices.missouri.edu>), S5 Memorial Union, 882-4696, and then notify me of your eligibility for reasonable accommodations. For other MU resources for students with disabilities, click on "Disability Resources" on the MU homepage.

Academic Honesty

Academic integrity is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person's work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards breaches of the academic integrity rules as extremely serious matters. Sanctions for such a breach may include academic sanctions from the instructor, including failing the course for any violation, to disciplinary sanctions ranging from probation to expulsion. When in doubt about plagiarism, paraphrasing, quoting, collaboration, or any other form of cheating, consult the course instructor.

Statement for Intellectual Pluralism

The University community welcomes intellectual diversity and respects student rights. Students who have questions concerning the quality of instruction in this class may address concerns to either the Departmental Chair or Divisional leader or Director or the Director of the Office of Students Rights and Responsibilities (<http://osrr.missouri.edu/>). All students will have the opportunity to submit an anonymous evaluation of the instructor(s) at the end of the course.

E-mail Etiquette

Help students develop a habit of using professional e-mail communication by following these recommended guidelines. <http://cafnr.missouri.edu/career-services/pro-dev/email-etiquette-guidelines.pdf>.

Missing Class

If students decide they must miss a class or laboratory session due to an extra-curricular or co-curricular activity they should follow these guidelines. <http://cafnr.missouri.edu/career-services/pro-dev/missing-classes.pdf>. Materials submitted after the specified due date will be subject to a minimum of a seven percent deduction (one letter grade).

Classroom Etiquette

To ensure a positive learning environment, students should adhere to these classroom expectations. <http://cafnr.missouri.edu/career-services/pro-dev/classroom-etiquette.pdf>