

Introduction to Soil Science Syllabus

AGA 182 3 Credit Hours

Fall

| Course Information | |
|----------------------|---------------|
| Course Moniker | AGA 182 |
| Section | AGA 182 MLL01 |
| Section Number | 199363 |
| Course Delivery Mode | Face-to-Face |
| Class Start Date | August |
| | |

| Instructor Information | |
|------------------------|----------|
| Instructor | Sam Paul |

Course Description

Course Description: This course will help students understand soil function, texture, structure, formation, taxonomy, and other properties of soil

Prerequisites and Co-requisites: None

Course Goals:

1. To provide basic information on fundamental principles of soil science so that students will understand the importance of soils to man and the entire environment.
2. Enable students to use the principles and concepts to solve problems of soil management and crop production within a solid environmental and ecological framework.
3. Learn where to find useful soil science information, use the information to solve problems and communicate this information and solutions to others
4. Promote critical thinking about soil science and how it links to other sciences

Required and Recommended Textbooks, Software, and/or Other Materials

Required Textbooks, Software, and/or Other Materials:

Optional for the class:

Illinois Agronomy Handbook, 24th edition, University of Illinois College of Agricultural, Consumer and Environmental Sciences, Department of Crop Sciences, Cooperative Extension Service, Circular 1394

Soil Science Simplified, 5th Edition, Waveland Press, 2016.

Soil Fertility Manual, International Plant Nutrition Manual, 2006.

Teaching Strategies

Teaching Strategies: *This course is presented in lecture fashion (didactic) with the use of learning exercises, group discussions, debated, group sharing of personal or clinical experiences (collaborative learning), and an emphasis on case study applications (discovery learning).*

Attendance Expectations

Attendance Expectations:

The student is expected to read assigned text and reference materials. Students are also expected to attend and participate in class. Attendance and Participation makes up 20% of a student's final grade.

Evaluation Methods: Course Assessments, Participation, and Grading Policies

EVALUATION METHODS MAY INCLUDE:

Assessments= 50%

Final= 20%

Assignments= 20%

Attendance/Participation= 10%

*Grading criterion subject to change per instructors decision

Grade model:

A = 90-100%

B = 80-89%

C = 70-79%

D = 60-69%

F = 59% and below

Proposed Class Schedule

Schedule the class meeting dates, and note any days in which the college is closed. To access the academic calendar, eicc.edu/future-students/academic-calendar.aspx.

| | | Soil Survey Soil Formation Soil Sampling | |
|--|--|---|--|
| | | Soil Physical Properties Soil Particulate Lab Soil Texture Lab Soil Exam 1 | |
| | | | |
| | | Soil Water Perk Testing Irrigation | |
| | | Biological Properties Organic Matter Soil Conservation | |
| | | Soil Pit Review Midterm Exam | |
| | | Work Experience | |
| | | Soil Productivity No Class on 11/07 Soil Chemical Properties: Soil Colloids CEC | |
| | | Soil Ph | |

| | | | |
|--|--|---------------------------|--|
| | | | |
| | | Exam 3 | |
| | | Essential Plant Nutrients | |
| | | No Class | |
| | | P,K, Secondary Nutrients | |
| | | Plant Analysis | |
| | | Micronutrients | |
| | | Review and Finals | |
| | | | |

Student Make-up Policy, Classroom Behavior & Netiquette, and/or Other Expectations

Make-up Policy:

Late work is not accepted without prior permission from instructor. Exams may be made up the week the student returns to class; otherwise zero credit is assigned for that exam. Please set up date and time of make-up with instructor prior to returning to class or before class begins of returned date. **NO MAKE-UP** of missed assignments, quizzes, or field trips without prior approval.

Classroom Behavior & Netiquette Expectations:

- complete assigned readings
- complete assignments on schedule. **Late work will not be accepted unless permission has been granted prior to absence by instructor.**
- attend and participate in class.
- conduct himself/herself in a professional manner (refer to code of conduct).
- NO** tobacco; cell phones turned **OFF** or put away on silent

Faculty Feedback Commitment to Students

Faculty Feedback Commitment: Instructor will pass back assignments in class with grading and feedback provided, if a student is absent they have two weeks to pick up their assignment. Assignment grades will be entered within 7 school days and posted in the online gradebook for students to reference. Student emails and messages will be responded to within two working school days.

College Policies

The Student Handbook is online at eicc.edu/handbook. Any questions about the handbook should be directed to the Dean of Student Development.

Academic Integrity: College deans may initiate disciplinary proceedings against a student accused of Academic Dishonesty. Academic Dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. Academic dishonesty will not be tolerated in any course at this college. Plagiarism and others forms of cheating are examples of such dishonesty and will result in serious consequences. Plagiarism is presenting someone else's words as your own, whether in writing or in speaking.

FERPA Information: Eastern Iowa Community Colleges, in full compliance with the Family Educational Rights and Privacy Act of 1974, shall make educational records available to students upon request. Likewise, in accordance with the law, individually identifiable educational records will not be released to anyone other than authorized individuals without written consent of the student. Students have the right to file complaints with the Family Educational Rights and Privacy Act (FERPA) Office concerning alleged failures by the institution to comply with the act. For more information, visit eicc.edu/about-eicc/ferpa.aspx.

Student Complaint Policy/Procedures for Capricious Grading:

eicc.edu/about-eicc/student-handbook/procedures-for-use-in-appealing-allegedly-capricious-semester-grades.aspx

Resources

MCC Success Center

The MCC Success Center is a free on-campus resource that provides tutoring assistance, strategies for successful learning, and resources to help you succeed in your classes. Trained tutors can offer one-on-one assistance or group support in a variety of subjects, including math, science, writing, and more. Meet with a tutor to complete homework, discuss difficult material, brainstorm or revise a writing assignment, or study for exams. Come to the MCC Success Center in Loper 110 to meet with a tutor during drop-in hours, or to schedule an appointment, contact Jill Holler at 563-288-6013 or jholler@eicc.edu.

Disability Services: MCC is committed to providing access to all students. If you have a disability that may affect your academic performance and are seeking accommodations, it is your responsibility to inform the Disability Resources Coordinator. Please contact Jill Holler at 563-288-6013 or jholler@eicc.edu to make an appointment, or stop by her office in Loper 109. It is important to request accommodations promptly in order to receive your accommodations in a timely manner. Instructors can only provide accommodations after being presented with a completed EICC Accommodation Form. This service is free and confidential.

English Language Acquisition: For students whose primary language is other than English and who believe that receiving academic assistance is necessary for their success, the following resource guidelines are offered:

- Meet with your instructor at the beginning of the course to discuss strategies for success.
- Seek free tutoring by contacting the MCC Success Center (see above).
- Manage your time so you can sufficiently understand the coursework and assignments.

Family Resources: Sometimes we need a little extra support - maybe for depression, family problems, or day-to-day stress. Free counseling services are available on campus to all students through a licensed therapist from Family Resources, Inc. Appointments can be made at the Student Center front desk or by calling 563-288-6001.

Military: Eastern Iowa Community College seeks to provide a learning environment that is welcoming to all students. Any active or reserve military who would like to discuss transitioning from the military into the academic environment, please contact Rebecca Geiken. She is available to assist all veterans and their families in accessing programs and services within the college and community to enhance their educational experience. We have a Student Veteran's Organization and a Veteran Center in room Loper 108 on the Muscatine main campus. Rebecca Geiken, Military and Veteran Student Affairs Facilitator, can be reached at rgeiken@eicc.edu or by phone at 563-288-6063.

Retention Alert: One of the most efficient and effective ways to improve student success and retention is to identify problems early and take swift action. EICC uses an automated tool that helps students by alerting the appropriate parties, triggering the appropriate response, setting up and tracking an action plan, and monitoring success.

Campus Communication: In an effort to keep our students safe and informed in emergency situations, EICC has a system to help alert students, faculty, and staff of school closings and other emergencies. EICCAAlert is a free service to send text and voice messages and email notifications. To sign up for alerts eicc.edu/about-eicc/eiccalert/. Also, login to EICConnect for daily cancellations, activities, and events.

Other

(This section is to be used for posting items such as:

- *Required purchase of Lab Coats*

- *Required purchase of Tools*
- *Required purchase of Welding Mask*
- *Link to Program Student Handbook)*