

Campus Name: Newton Campus

Course Title: Environmental Science Lab

Course Number: ENV116

Section Number & CRN: 11866

**Instructor Information**

Name	Matt Abbott, PhD
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Phone Number	(641) 791-1775
Office Location	134
Office Hours	Tuesday: 11-12, 1-2; Wednesday: 11-12; Thursday 11-12, 1-2
Instructor Web Page Address	<a href="http://www.dmacc.edu/Instructors/mabbott1/">http://www.dmacc.edu/Instructors/mabbott1/</a>
Blackboard	<a href="https://secure.dmacc.edu/myonlinelearning/login.aspx">https://secure.dmacc.edu/myonlinelearning/login.aspx</a>

**Course Information**

Semester & Year	Fall 2011
Days & Time & Location	Room 248A: Wednesday 1-3pm
Course Description & Credits	1 credit. Lab supplements discussion course ENV115, Environmental Science. Lab includes laboratory and field work related to environmental science. Emphasis is placed on scientific methodology and investigation.
Prerequisites	Enrollment in or prior completion of ENV 115 or equivalent
Course Competencies	<ol style="list-style-type: none"> <li>1. Explain the safety procedures and health rules of the environmental science laboratory.</li> <li>2. Identify scientific issues, concepts, and hypotheses related to environmental science, which may include sustainability, human population growth, population ecology, biodiversity, energy, water resources, soil conservation, modern agriculture, atmospheric science, air pollution, global climate change, and waste management.</li> <li>3. Relate scientific literature to scientific issues, concepts and hypotheses in environmental science.</li> <li>4. Design a strategy for scientific investigation.</li> <li>5. Investigate scientific issues, concepts, and hypotheses related to environmental science.</li> <li>6. Analyze information collected through scientific investigation.</li> <li>7. Summarize the results of an investigative process.</li> <li>8. Complete a line of scientific inquiry in a field setting.</li> <li>9. Explain the significance of a scientific investigation.</li> </ol>

**Textbooks & Materials**

Required Textbooks & ISBN	None
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**Course Policies**



Academic Dishonesty/Plagiarism	It is important for you to be familiar with and follow DMACC's Academic Misconduct policy. Students are encouraged to review DMACC's Academic Misconduct Policy on-line at <a href="https://go.dmacc.edu/handbook/polprocedures/pages/academic_misconduct.aspx">https://go.dmacc.edu/handbook/polprocedures/pages/academic_misconduct.aspx</a> or in the DMACC Student Handbook.
<b>DMACC Information</b>	
Add/Drop Dates	<a href="https://go.dmacc.edu/registration/pages/add_drop.aspx">https://go.dmacc.edu/registration/pages/add_drop.aspx</a>
Refund Policy	<a href="https://go.dmacc.edu/registration/Pages/refund.aspx">https://go.dmacc.edu/registration/Pages/refund.aspx</a>
<b>Support Services</b>	
Services for Students with Disabilities	<a href="https://go.dmacc.edu/student_services/disabilities">https://go.dmacc.edu/student_services/disabilities</a> Any student with a documented disability who requires reasonable accommodation should contact the Disability Services Coordinator at <b>515-964-6850V</b> or <a href="mailto:hlcoon@dmacc.edu">hlcoon@dmacc.edu</a> or the counseling & advising office on any campus to apply for services.
<b>Course Syllabus</b>	

**DISCLAIMER:** “This syllabus is representative of materials that will be covered in this class; it is not a contract between the student and the institution. It is subject to change without notice. Any potential exceptions to stated policies and requirements will be addressed on an individual basis, and only for reasons that meet specific requirements. If you have any problems related to this class, please feel free to discuss them with me.”

**NONDISCRIMINATION POLICY:** Des Moines Area Community College shall not engage in or allow discrimination covered by law. This includes harassment based on race, color, national origin, creed, religion, gender, sexual orientation, age, and disability. Veteran status in educational programs, activities, employment practices, or admission procedures is also included to the extent covered by law. Individuals who believe they have been discriminated against may file a complaint through the College Discrimination Complaint Procedures. Complaint forms may be obtained from the DMACC Web site, the Ombudsperson, Judicial Officer, Human Resources Department, the campus Provost's Offices, and Academic Deans' Offices.

Students who wish additional information or assistance may contact the **Executive Dean, Student Services, Laurie Wolf**, Bldg. 1 on the Ankeny Campus, 515-964-6437 or the **Judicial Officer, Debbie McKittrick**, Bldg. 1 on the Ankeny Campus, 515-964-6574 or they may refer to Student Services procedure ES 4645 located at [https://go.dmacc.edu/student\\_services/int](https://go.dmacc.edu/student_services/int). Click Policies & Procedures.

Employees and applicants who wish additional information or assistance may contact the **EEO/AA Officer, Dr. Sandy Tryon**, Human Resources, Bldg. 1 on Ankeny Campus, 515-964-6301 or refer to HR Procedures 3000, 3005, 3010, 3015, and 3020 at <http://www.dmacc.edu/hr/hrpp.asp>

Program Development/Academic Support Services Director, Sharon Bittner, is the official Student Accommodation Office/Section 504/ADA Coordinator for DMACC. The ADA Coordinator's office is located in Bldg. 6-10e on the Ankeny Campus and may be contacted by voice (515-964-6857) or [sgbittner@dmacc.edu](mailto:sgbittner@dmacc.edu). The ADA Coordinator is responsible for ensuring that the college complies with federal regulations that guarantee qualified students with disabilities equal access to all programs and services. Any student, faculty, or staff member may contact the ADA Coordinator's office for clarification of federal regulations, appeal of a grievance, or resolution of a disability-related problem.

### **Syllabus Addendum**

To access additional information related to DMACC policies and procedures that impact the classroom (i.e. use of technology, weather-related cancellations, classroom conduct, etc.), the DMACC student handbook, registration information (including add/drop dates and refund dates), student service information (including counseling and advising), the DMACC academic calendar, and campus-specific resources (i.e. Academic Achievement Center, library, computer, labs, etc), go to <https://go.dmacc.edu/handbook> and click “Syllabus Addendum” in the left navigation.

If you do not have access to a computer and need a printed version of any of the information described above, contact your instructor.

Tentative Course Schedule		
Week or Date	Topic	Location
Week 1 8/31	Introduction; FILM: Garden of Eden	248A
Week 2 9/7	<u>Wildlife Management</u> Mark-Recapture Method	248A
Week 3 9/14	<u>Human Ecology</u> Human Populations	Union Cemetery
Week 4 9/21	FILM: Tallgrass Prairie <b>* Discuss and Assign Projects</b>	248A
Week 5 9/28	<u>Ecology</u> Restoration Ecology	Neal Smith Prairie Center
Week 6 10/5	<u>Land Use and Water Resources</u> Park Planning	Mariposa
Week 7 10/12	<u>Land Use and Water Resources</u> Park Planning	Jacob Krumm
Week 8 10/19	Present/Discuss Park Planning Findings FILM: Municipal Wastewater Treatment Plant	248A
Week 9 10/26	<u>Forest Management: Timber Cruising</u> <b>* Project Outline Due</b>	Maytag Park
Week 10 11/2	Biodiversity scavenger hunt <u>Water Pollution</u> Water Chemistry, turbidity, dissolved Oxygen	Mariposa
Week 11 11/9	Present/Discuss scavenger hunt results FILM: Understanding Biodiversity	248A
Week 12 11/16	<u>Soil Conservation</u> Soil Surveys, the Soil Conservation Farm Plan	248A
Week 13 11/23	Present/Discuss soil report write-ups	248A
Week 14 11/30	<u>Energy and Water Conservation</u> <u>Solid Waste Management</u>	248A
Week 15 12/7	<b>* Presentation and Project write-up due</b>	248A