CASPER COLLEGE COURSE SYLLABUS
RETK 2500 Basic Site Planning

Semester/Year: Spring 2016

Lecture Hours: 2  Lab Hours: 2  Credit Hours: 3
Class Time: 6-9PM  Days: Tuesday  Room: EI 114

Instructor’s Name: Mike Malone

Instructor's Contact Information:
Office Phone: 307-268-3124  Office Hours: 11-12, 1-3 T.
Home Phone: 307-251-4536  11-12, 1-3 TH.
or by appointment

Email: mmalone@caspercollege.edu

Course Description:
This class is designed to teach students the concepts and processes employed in evaluating and preparing sites for construction of renewable energy projects.

Statement of Prerequisites: none

Program Goals:
The Renewable Energy Technology program is a versatile, interdisciplinary program that offers students the opportunity to become trained in variety of technologies. The core of the program is centered on electrical power generation from wind and solar. The program assembled produces graduates trained as instrumentation and control technicians that have a high level of mechanical skills as well as specific skills in wind and solar installations. The program allows for electives in related disciplines such as construction, business, Geographical Information Systems (GIS) and information technology. All included, small wind turbines and residential solar installations for students seeking small scale renewable energy skills.

Course goals:
To make students aware of the environmental factors that affect site construction at renewable energy sites.

Outcomes:
Upon completion of this course, students will be able to:
1. Demonstrate effective oral and written communication
2. Solve problems using critical thinking and creativity
3. Use appropriate technology and information to conduct research
4. Describe the value of personal, civic, and social responsibilities
5. Use quantitative analytical skills to evaluate and process numerical data
6. Identify factors affecting site construction
7. Evaluate the impact each of the factors affecting site construction
8. Understand the impact of large scale site grading
9. Understand environmental policy, impacts and

Methodology:
Expectations:
1. Class attendance:
Much of the learning occurs in the classroom setting and cannot be made up by reading the textbook. Therefore, class participation is essential to your learning and attendance will be taken.

In order to receive an “A” in class participation, you should miss no more than two classes and complete all assignments (those required before class, those completed during class, and those required after class). If you know that you must miss a class session, you will need to inform your instructor.

Class Participation:
Your participation grade is based on the quality (not frequency) of your contribution. Those receiving high grades in class participation will be those who:
• are prepared for class
• arrive to class on time
• have excellent attendance
• make comments and ask questions that significantly contribute to the learning environment of the class
• are willing to volunteer for role plays and other in-class demonstrations and exercises.

Sessions are a combination of lecture, experiential activities and team exercises, and are based on a design philosophy that emphasizes the utilization of:
• Detailed lesson plans
• Interactive classroom activities
• Real-world examples
• Team activities
• Repetition of concepts to ensure retention
• Regular homework assignments
• High student performance expectations

Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.
Evaluation Criteria:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Attendance/Participation</td>
<td>10%</td>
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<tr>
<td>Homework/Workshops/Projects</td>
<td>40%</td>
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<td>Tests</td>
<td>50%</td>
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Grading Scale:

A = 90-100%
B = 80-90%
C = 70-80%
D = 60-70%
F < 60%

Required Text, Readings, and Materials:

Class Policies: Last Date to Change to Audit Status or to Withdraw with a W Grade:
April 14th 2014

Student Rights and Responsibilities: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

Academic Dishonesty: (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

Official Means of Communication: Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

ADA Accommodations Policy: If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college’s Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

Calendar or schedule indicating course content:
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<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
</tr>
<tr>
<td>2</td>
<td>Site Inventory, Rules, Zoning</td>
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<tr>
<td>3</td>
<td>Geology and Soils</td>
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<td>4</td>
<td>Plant Materials for Erosion Prevention</td>
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<td>5</td>
<td>Plant Materials for Energy Conservation</td>
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<td>6</td>
<td>GIS</td>
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<td>7</td>
<td>Surface Water</td>
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<td>8</td>
<td>Site Climate Conditions</td>
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<td>9</td>
<td>Site Analysis Project</td>
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<tr>
<td>10</td>
<td>Site Analysis Project</td>
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<tr>
<td>11</td>
<td>Grading Basics</td>
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<tr>
<td>12</td>
<td>Grading</td>
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<tr>
<td>13</td>
<td>Erosion Control methods</td>
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<tr>
<td>14</td>
<td>Test</td>
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<tr>
<td>15</td>
<td>Final Planning Project Presentations</td>
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<tr>
<td>16</td>
<td>Final</td>
</tr>
<tr>
<td>Finals</td>
<td>As Scheduled</td>
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</tbody>
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**Schedule is tentative and subject to change with Notice**