COLLEGE OF THE DESERT

Course Code CM-003

Course Outline of Record

1. Course Code: CM-003
2. a. Long Course Title: Site & Terrain Analysis
   b. Short Course Title: SITE/TERRAIN ANLYSIS
3. a. Catalog Course Description:
   This course is an introduction to various methods and techniques used to inventory and analyze landscape features. Students will also study mapping, overlay techniques, environmental ethics, case study review and an overall assessment of the function and structure of the natural landscape.
   b. Class Schedule Course Description:
   This course analyzes the methodologies and techniques used to review parcels of land for further improvement.
   c. Semester Cycle (*if applicable*): Fall semester
   d. Name of Approved Program(s):
   - CONSTRUCTION MANAGEMENT AS Degree for Employment Preparation
4. Total Units: 3.00 Total Semester Hrs: 90.00
   Lecture Units: 2 Semester Lecture Hrs: 36.00
   Lab Units: 1 Semester Lab Hrs: 54.00
   Class Size Maximum: 28 Allow Audit: No
   Repeatability No Repeats Allowed
   Justification 0
5. Prerequisite or Corequisite Courses or Advisories:
   Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm1-A)
   Advisory: RDG 061 and
   Advisory: MATH 060
6. Textbooks, Required Reading or Software: *(List in APA or MLA format.)* N/A
7. Entrance Skills: *Before entering the course students must be able:*

Advisory Skills:

a. Compute using the four basic operations of addition, subtraction, multiplication, and division on the Whole Numbers, Integers, and Rational Numbers
- MATH 060 - Compute using the four basic operations of addition, subtraction, multiplication, and division on the rational numbers in both fraction and decimal form.

b. Know the use of rounding and estimation and use these skills to solve problems.
- MATH 060 - Use rounding and estimation to solve problems involving rational numbers.

c. Comprehend percents and convert between percents, decimals, and fractions.
- MATH 060 - Apply methods of conversion between percents, decimals, and fractions.

d. Use basic concepts and formulas from geometry, including perimeter, area, and volume.
- MATH 060 - Use concepts and formulas from geometry.

e.
Use various reading strategies to prepare, read and comprehend expository text.
- RDG 061 - Use SQ3R &/or SOAR along with outlining, note-taking, mapping summarizing and other strategies to prepare, read, & comprehend expository text.

f.
Read a variety of texts fluently.
- RDG 061 - Read a variety of texts fluently.

g.
Write organized summaries & reactions that capture main idea and supporting details.

- RDG 061 - Write organized summaries & reactions that capture main idea and supporting details.

h.
Understand multiple word meanings, uses & synonyms.

- RDG 061 - Understand multiple word meanings, uses & synonyms

8. Course Content and Scope:

Lecture:

a. Information Identification
   i. Relationship between program/goals, objectives and site characteristics
   ii. Relationship of site to broader context
   iii. Use of site visits and pre-analysis
b. Data Research, Collection and Interpretation
   i. Topographic maps and land form analysis
   ii. Geological/Geomorphic Studies
   iii. Soil interpretation Studies
   iv. Climate Studies
   v. Vegetation and wildlife studies
   vi. Visual/spatial studies
   vii. Land use (current, historical) and community services
c. Analysis and Manipulation of Data
   i. Identification of suitable areas for program objectives
   ii. Identification of sensitive areas
   iii. Identification of site potential and limitations (flood, landslide, noise, earthquake, views, etc.)
d. Evaluation Criteria
   i. Personal and professional values and ethics in environmental decision making
   ii. Design program definition and evaluation
   iii. Compatibility analysis
   iv. Bubble zoning diagramming
e. Graphic and Oral Communication
   i. Mapping, overlay and tabulation techniques
   ii. Stand-up presentations and video applications

Lab: *(if the "Lab Hours" is greater than zero this is required)*

a. Area /site visits and analysis of: i. Solar azimuth and travel patterns ii. Noise (natural, transportation, people, other) iii. Views (desired, undesired) iv. Prevailing winds v. Natural terrain and unique features

9. Course Student Learning Outcomes:
   1. Evaluate and compare values of collected material for use in environmental decision-making.
   2. Identify the value of and need for the complete analysis of all building sites.
   3.
   Organize site terrain information.

10. Course Objectives: *Upon completion of this course, students will be able to:*
   a. Demonstrate an understanding of the value and need for the complete analysis of all building sites as part of the site planning process and be able to list each step in the assessment process
   b. Explain the natural and cultural factors and other building site resources both orally and in writing
   c. Demonstrate the requirements necessary to conduct a site analysis.
   d. Evaluate and compare values of collected material for use in environmental decision-making.

11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*
    a. Lecture
    Other Methods:
    a. Lecture b. Slides c. Guest Lecturer d. Field Trips e. Site Visits

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*
    In Class Hours: 90.00
    Outside Class Hours: 72.00
    a. In-class Assignments
    a. Textbook Assignments b. Collect and Interpret Data c. Oral presentations d. Written Reports
    b. Out-of-class Assignments
    a. Textbook Assignments b. Collect and Interpret Data c. Prepare for oral presentations d. Written Reports

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*

14. Methods of Evaluating: Additional Assessment Information:
    a. Attendance & Participation b. Chapter Assignments c. Written Reports d. Oral Presentations e. Quizzes f. Final Exam or Project

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*
    PO - Career and Technical Education
    Fulfill the requirements for an entry- level position in their field.
    Apply critical thinking skills to execute daily duties in their area of employment.
    Apply critical thinking skills to research, evaluate, analyze, and synthesize information.
    Exhibit effective written, oral communication and interpersonal skills.
    Transfer to a higher level learning institution
    IO - Critical Thinking and Communication
    Apply principles of logic to problem solve and reason with a fair and open mind.

16. Comparable Transfer Course

University System	Campus	Course Number	Course Title	Catalog Year

17. Special Materials and/or Equipment Required of Students:

18. Materials Fees: ☐ Required Material?

Material or Item	Cost Per Unit	Total Cost

19. Provide Reasons for the Substantial Modifications or New Course:

    Change the advisory and entrance skills to Reading 061, addition of one SLO, and periodic review.

20. a. Cross-Listed Course *(Enter Course Code)*: *N/A*
    b. Replacement Course *(Enter original Course Code)*: *N/A*

21. Grading Method *(choose one)*: Letter Grade Only

22. MIS Course Data Elements
    a. Course Control Number [CB00]: CCC000135213
    b. T.O.P. Code [CB03]: 95700.00 - Civil and Construction Ma
    c. Credit Status [CB04]: D - Credit - Degree Applicable
    d. Course Transfer Status [CB05]: B = Transfer CSU

e. Basic Skills Status [CB08]: 2N = Not basic skills course
f. Vocational Status [CB09]: Advanced Occupational
g. Course Classification [CB11]: Y - Credit Course
h. Special Class Status [CB13]: N - Not Special
i. Course CAN Code [CB14]: *N/A*
j. Course Prior to College Level [CB21]: Y = Not Applicable
k. Course Noncredit Category [CB22]: Y - Not Applicable
l. Funding Agency Category [CB23]: Y = Not Applicable
m. Program Status [CB24]: 1 = Program Applicable

Name of Approved Program *(if program-applicable)*: CONSTRUCTION MANAGEMENT
Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)

23. Enrollment - Estimate Enrollment
First Year: 28
Third Year: 28

24. Resources - Faculty - Discipline and Other Qualifications:
a. Sufficient Faculty Resources: Yes
b. If No, list number of FTE needed to offer this course: *N/A*

25. Additional Equipment and/or Supplies Needed and Source of Funding.
N/A

26. Additional Construction or Modification of Existing Classroom Space Needed. *(Explain:)*
N/A

27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES
Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: Yes

28. Originator Donbert M. Bitanga Origination Date 11/06/17