Richland College is determined to prepare the student with the knowledge and skills you need to succeed in today’s dynamic work environment.

CATALOG DESCRIPTION

An introduction to the engineering profession with emphasis on technical communication and team-based engineering design. Includes instruction in the application of mathematical and scientific principles to the solution of practical problems for the benefit of society. (1 Lec., 3 Lab)

COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will:

1. Describe the engineering profession and engineering ethics, including professional practice and licensure.
2. Use technical communication skills to explain the analysis and results of introductory laboratory exercises in engineering and computer science.
3. Explain the engineering analysis and design process.
4. Analyze data collected during laboratory exercises designed to expose students to the different engineering disciplines.
5. Describe the impact engineering has had on the modern world.
6. As part of a team, design a simple engineering device, write a design report, and present the design.
7. Demonstrate computer literacy.
COURSE DESCRIPTION:

Course Number: **ENGR 1201**

Course Title: **Introduction to Engineering**

Credit Hours: 2  Lecture Hours: 1  Lab Hours: 3

Prerequisites: MATH 1314 or equivalent

An introduction to the engineering profession with emphasis on technical communication and team-based engineering design. Includes instruction in the application of mathematical and scientific principles to the solution of practical problems for the benefit of society. (1 Lec., 3 Lab.)

TEXTBOOK:


SUPPLIES:

Scientific Calculator

COURSE REQUIREMENTS:

Students are encouraged to take notes in class and will turn assigned materials in for grading. To receive full credit for your work, it must be turned in one week from the date of the assignment, unless otherwise specified by the instructor. Late work will not be accepted except for extraordinary circumstances that are approved by the instructor.

METHOD OF PRESENTATION:

The class will be presented using lectures and guided experimental exercises in a computer lab environment. Students will work in two-person teams. Student participation and interaction is expected.
METHOD OF EVALUATION:
Evaluation will be based upon completion of all assigned work. The course average will be computed as follows:

- Quizzes .......................................................... 10%
- Exercises..........................................................10%
- Projects .......................................................... 40%
- Tests ............................................................... 20%
- Final Examination..............................................20%

Unless otherwise specified by the instructor, the grading system will be:

- 90 – 100  A
- 80 – 89   B
- 70 – 79   C
- 60 – 69   D
- ≤ 59      F

ATTENDANCE POLICY:
In order to be successful students must attend and participate in enrolled courses. You are expected to attend all classes and are fully responsible for your attendance. If at any time you wish to drop this course, or to withdraw from the college, initiate that action yourself. Do not assume that if you stop attending class you will be automatically dropped. It is the student’s responsibility to drop or withdraw. You must withdraw from this course before the drop date specified to receive a grade of “W”.

WITHDRAWAL POLICY:
If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by Thursday, April 16, 2015 (COURSE DROP DATE). Failure to do so will result in your receiving a performance grade, usually an “F”.

If you drop a class or withdraw from the college before the official drop/withdrawal you will receive a “W” (Withdraw).

CLASSROOM POLICIES:
Determined by Instructor

CLASSROOM FOOD AND DRINK POLICY:
Food and drink are not allowed in the classroom. (ref. OM CHB-801)
ACADEMIC PROGRESS:
Students are encouraged to discuss academic goals and degree completion with their instructors. Specific advising is available throughout the semester. Check 7Steps2Success for more details.

INSTITUTION POLICIES:
For Institution Policies, please refer to the Richland College website. www.richlandcollege.edu (current students) or to www.richlandcollege.edu/syllabusinfo/syllabiInformation.pdf

QEP: LEARNING TO LEARN: DEVELOPING LEARNING POWER

“Richland’s Quality Enhancement Plan (QEP) provides techniques, practices, and tools to help students develop the habits, traits or behaviors needed to be effective lifelong learners empowering success in college and in life.”

For information log onto http://www.richlandcollege.edu/qep2013/

SYLLABUS CHANGE DISCLAIMER:
The instructor reserves the right to amend a syllabus as necessary.
COURSE OBJECTIVES:

Describe the engineering profession and engineering ethics, including professional practice.

Use technical communication skill to explain the analysis and results of introductory laboratory exercises in engineering and computer science.

Explain the engineering analysis and design process.

Analyze data collected during laboratory exercises designed to expose students to the different engineering disciplines.

Describe the impact engineering has had on the modern world.

As part of a team, design a simple engineering device, write a design report, and present the design.

Demonstrate computer literacy.
COURSE OUTLINE:

SEMESTER / YEAR: Spring / 2015  COURSE / SECTION: ENGR 1201 / 83250

CLASS MEETING DAYS AND TIMES:  Friday 11:00 am - 12:15 pm
                                  12:20 pm - 4:00 pm

INSTRUCTOR: Shadi Majd
EMAIL: shadimajd@dcccd.edu

OFFICE HOURS: Available by appointment