

## HOUSTON COMMUNITY COLLEGE SYSTEM NW SPRING BRANCH CAMPUS

**ENGR 1201      Introduction to Engineering      CRN: 79567      Spring 2012**

**Time:** 1:00 pm - 3:00 pm Friday (16 weeks course)

Lecture (Room 611) at NW Spring Branch Campus

Instructor: Olatunde (Tunde) Amosu; Phone: 832-359-8414

Email address: olatunde.amosu@hccs.edu

Office Hour: before and after class on Friday or by appointment

Textbook: Studying Engineering; A road map to rewarding Career by Raymond B. Landis- (3<sup>rd</sup> edition)

### **Course Description**

This course is an introductory to engineering course; every thing that you need to know about engineering. The course will teach everything a student needs to know to succeed in engineering school, introduce students to engineering profession. A vivid picture of the vast range of things engineers do, the world changing things some of them have done in the past, the challenges and the creativity that they routinely face on the job. The course will introduce students to the learning process- how it works, when and why it goes wrong and how to avoid the pitfalls that have ensnared generations of engineering students

### **Course Intent**

This course is intended for students to have an insight to what is needed to succeed in engineering profession. It can also fulfill science credits requirements for most colleges and universities.

### **Course Goal**

The goal of this course is to motivate students by a clear understanding of engineering as a profession, be aware of engineering good ethical and professional practice and engage in such practice at all times. The students will be motivated through a clear understanding of the rewards (payoffs) and opportunities (the job functions) that will come to them when personal choices are put forth to studying engineering. Students will be acquainted with the various industrial sectors (e.g., computer, aerospace (NASA), electronic, utility, oil, large constructors, etc.) and of how engineers are utilized in each of these sectors.

### **Attendance policy**

Students are encouraged to attend all classes. The HCCS attendance policy is stated in the Schedule of Classes for 2008 on page 29: "Students are expected to attend classes regularly. Students are responsible for materials covered during their absences and it is the student's responsibility to consult with instructors for make-up assignments also. Class attendance is checked daily by instructors. *Although it is the responsibility of the student to drop a course for non-attendance, the instructor has full authority to drop a student for excessive absences. A student may be dropped from a course for excessive absences after the student has accumulated absences in excess of 12.5% of the hours of instruction (including lecture and laboratory time).*"

If circumstances significantly prevent you from attending classes, please inform me. I realize that sometimes outside circumstances can interfere with school and I will try to be as accommodating as possible, but please be aware of the attendance policy.

### **Students with Disabilities**

HCCS is committed to compliance with the American with Disabilities Act and the Rehabilitation Act of 1973 (section 504).

"Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing etc.) who needs to arrange reasonable accommodation must contact the appropriate HCC Disability Support Service (DSS) Counselor at the beginning of each semester. Instructors are authorized to provide only the HCC DSSO approved accommodations but must do so in a timely manner.

Students who are requesting special testing accommodations must first contact the appropriate (most convenient) DSS office for assistance each semester.

Disability Support Services Offices:

System: 713.718.5165

Central: 713.718.6164 – also for Deaf and Hard of Hearing Services and Students

Outside of the HCC District service areas.

Northwest: 713.718.5422

Northeast: 713.718.8420

Southeast: 713.718.7218

Southwest: 713.718.7909

The student must request an accommodation before the start of each semester (as applicable) and should indicate to the DSS counselor when he/she is enrolled in a class. After student accommodation letters have been approved by the DSS office an email confirmation informing them of the Instructional Support Specialist assigned to their professor and that the accommodation letter has been processed. Upon consultation and documentation, you will be provided with reasonable accommodations and/ or modifications.

Also visit the ADA web site at:

<http://www.hccs.edu/students/disability/index.htm>. Faculty Handbook / faculty Orientation is also available at <http://www.hccs.edu/sudnts/disability/faculty.htm>

### **Academic Honesty**

All students are required to exercise academic honesty in completion of all tests and assignments.

Penalties for academic dishonesty (cheating on a test, collusion on an assignment, etc.) include, but are not limited to, a reduced grade, a "O" on that test or assignment, a "W" in the course, or an "F" in the course.

The use of recording devices, including camera phones and tape recorders, is prohibited in all locations where instruction, tutoring, or testing occurs.

### **Administrative and Student Withdrawals**

For 16 week Spring '12 classes, this date is **March 29<sup>th</sup> (4:30pm)**. In order to withdraw from a class, students **MUST** request to be withdrawn by notifying the professor. This must be done **PRIOR** to the withdrawal deadline to receive a "W" grade. If a student does not request to withdraw before the deadline, the student must be assigned a letter grade that is earned by the end of the semester (A, B, C, D, and F).

I urge any student who is contemplating of withdrawing from the class to see me first. You may be doing better than you think. Either way, I want to be accessible and supportive. I don't believe in "weed out" classes, and I consider you to be much more than just a name or number.

If you need assistance, do not hesitate to contact me (my phone number and e-mail address are listed above). I am here to help you.

### **Exams and Make-up Policy**

Examinations consist of three-non-cumulative regular exams plus a final. Make-up exams **will not** be given, so make every effort to take the exams on their scheduled dates.

Please note: 1) All students are required to take the final (no student can be exempted).

2) A student who completes the course by taking the final exam cannot receive a 'W' in the course. A 'W' can only be received on or before the last date of withdrawal.

### **Grading**

- 60% of your course grade is based on the lecture exams.
- 20% of your course grade is from the final examination taken during the May 13, 2012 final exam period. The final examination is compulsory for all the HCCS students.
- 20% of your course grade is from 3 or 4 engineering write-up Assignments, which you will type and submit on the agreed due date.

### **GRADE COMPUTATION:**

3 Lecture exams	60 pts (60%)
3 or 4 Engineering Write Up Assignments	20 pts (20%)
Final Examination-May 9-13, 2011	20 pts (20%)
Total	100 pts (100%)

The course grade as approved by HCC is then obtained from the overall score:

A = 90 above

B = 80-89

C = 70-79

D = 60-69

F = below 60

### **Success in this course depends solely on the individual student**

The following are strongly recommended for each student:

- Read and understand all elements of the Syllabus, Distance Education and Student handbooks.
- Give your professor evening (after 9pm or week-ends) phone calls and e-mail.
- Read and comprehend the required chapters in the textbook prior to the exams.
- Successfully complete all requirements of this course as outlined in this document.

- Contact your professor if you have any questions regarding any element of the course you do not understand.
- HINT: Work hard from the beginning of the semester rather than playing a "catch-up game during the second half of the semester.
- Plan to attend all class review sessions to clarify your concerns about the course content/tests.

### **Important dates**

January 16:	Office Closed- Martin Luther King Jr (Holiday)
January 17:	Regular classes' begin- Drop/Add/Swap
January 18:	Registration Ends
January 18:	Last day for Drop/Add/Swap
Feb 20:	Office closed- Presidents Day (Holiday)
March 12- 18:	Offices closed- Spring Break (Holiday)
March 29:	Last day for student withdrawals- 4:30pm
April 6-8:	Offices closed- Easter Holiday
May 6:	Instruction ends
May 7-13:	Final exam begins on HCCS regular class schedule
May 13:	Semester Ends
May 14:	Grades Due by 12:00 noon
May 18:	Grades available to students