Course Syllabus for

ECS 1200 – Introduction to Engineering and Computer Science

Section	Days	Time	Room	TAs
031	Tues/Thurs	10:00am-10:50am	FN 2.104	Rifat, Srinath
033	Tues/Thurs	1:00pm-1:50pm	FN 2.104	Rifat, Devashish

Professor Contact Information

Dr. Oziel Rios
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Office Hours: Tuesday 11:00-12:30pm
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Teaching Assistant Contact Information

Name: Devashish Lingam
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Name: Srinath Iyengar
Office: ECSS 3.619
Office Hours: Tuesday and Thursday 11:30-12:30pm
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Name: Rifat Kabir
Office: ECSS 3.619
Office Hours: Monday 2:30-3:30pm and Friday 10:00-11:00am
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Course Pre-requisites, Co-requisites, and/or Other Restrictions

For ECS freshmen only.

Course Description

ECS 1200 Introduction to Engineering and Computer Science (2 semester hours) Introduction to the engineering and computing professions, professional ethics. Overview of ECS curricula, connections among ECS fields and to the sciences, and other fields. Basic study, problem

solving and other skills needed to succeed as an ECS major. Engineering design and quantitative methods. Multi-disciplinary team projects designed to replicate decision processes in real-world situations.

Course Objectives and Topics

Upon successful completion of this course, you will have:

a) An understanding of the engineering and computing professions and the degree programs leading to them.
b) An appreciation of professional ethics.
c) An appreciation and practice of basic skills essential to success in ECS majors including problem solving skills, communications skills, team work.
d) An understanding of basic approaches to design and exposure to quantitative methods.

To this end, the topics to be covered include:

a) Engineering and Computing Professions
b) Professional Ethics
c) Study, Problem Solving, Communication Skills, Team work
d) Introduction to Design
e) Quantitative Methods – Introduction to MATLAB

Required Textbook and Supplies

Engineering Your Future: A Comprehensive Introduction to Engineering (8th Ed.)
William C. Oakes and Les L. Leone
ISBN-13: 978-0199348015

It is strongly suggested you purchase a personal laptop for this course. The software we will use in this course are Microsoft Office (Word, Excel, Power Point) and Matlab. Both of these can be purchased from the UTD Technology Store (http://www.utdtechstore.com/).

Notes, supporting material and other resources will be posted on eLearning.

Important Dates

Last day to withdraw without "W":	September 10
Last day to withdraw with "W":	October 30
Fall break (no classes):	November 24-28
Last day of classes:	December 10
Finals week:	December 12-18

Grading Policy

[**10%**] **Class Attendance**: You are required to attend all class sessions. Your attendance grade will be determined as follows:

4 or fewer absences receive full 10% attendance credit
5 or more absences receive 0% attendance credit
9 or more absences will result in a grade of **F** in ECS1200

Being 10-minutes late or leaving before class has ended will result in an absence for that class session. Proper documentation must be provided for excused absences (such as a doctor's note).

[**30%**] **Exams**: There will be two exams each worth 15%. Make-up exams will only be allowed for the cases of illness, attendance of a university sponsored event (such as an athletic activity) or under unusual circumstances (such as the death of a friend or family member). For each case, you are required to provide proper documentation (such as doctor's note or note from athletic advisor).

- **Online eLearning Modules**: You are required to complete a set of online modules in eLearning. As a student registered for this course, these will be available when you log in to eLearning (eLearning.utdallas.edu) using your NetID and password. The modules are open for a limited period of time. Assessment of these modules will be done via the exams.

[**35%**] **Homework Assignments and In-Class Activities**: Unless otherwise stated, homework assignments and deliverables for in-class activities (if any) will be submitted in eLearning. *No late homework assignments or in-class activities will be accepted under any circumstances*.

- **CLA+ Test**: You are required to register for and take the CLA+ test at the Testing Center (located in the basement of the McDermott Library, MC 1.401) during the second week of classes. Taking this test will count as one homework assignment.

[**25%**] **Team Project**: You will work in a team of four to work on a project. Some class sessions will be reserved for working on the project (see "Reverse Engineering Project" in the schedule) but this time may not be sufficient to complete all the deliverables. You should plan on meeting outside of class at least once a week.

You have five business days to appeal any grade or absence (contact the instructor or TA during office hours). The five days will be counted starting from the day the assignment or exam is returned.

Your final grade will be rounded to the nearest whole number and the final letter grade will be assigned based on the following ranges:

	Plus (+)		**Minus (-)**
A	100 - 97	96 - 93	92 - 90
B	89 - 87	86 - 83	82 - 80
C	79 - 77	76 - 73	72 - 70
D	69 - 67	66 - 63	62 - 60
F		59 and below	

Course & Instructor Policies

Email must be sent from your UTD email account to the UTD email address of the instructor or TA. Please allow 24-36 hours for a response during the week. Please format your emails professionally before sending: (i) address the recipient appropriately (e.g., “Prof. Rios”, “Dr. Rios”, or “Dear Dr. Rios”), (ii) use correct grammar, capitalization, and sentence structure, and (iii) add sufficient closing (e.g., “Best regards”, or “Best wishes”).

Throughout the semester, the instructor will have intermittent, unavoidable professional travel commitments. On these days, the instructor will provide advance notice and class will be canceled or taught by a TA.

The use of laptop computers, tablets, cell phones, or other electronic devices are ***not*** allowed during lectures or exams. The use of laptops is encouraged during studio sessions (see "Course Structure and Schedule").

The rules for exams are as follows:

- Only a pencil and eraser is allowed. Other materials such as books, notes, electronic devices and backpacks must be placed under your chair. You may not open your bag inside the room once the exam has begun.
- If late to an exam, remove pencil from your bag before entering the room. Quietly enter the room and wait for further instructions.

Academic dishonest will not be tolerated. All suspected cases of academic dishonesty will be sent to the Office of Judicial Affairs (see http://www.utdallas.edu/deanofstudents/managing/). If it is determined that academic dishonesty occurred you will receive a grade of **F** in this course.

For a full list of university policies, please visit http://go.utdallas.edu/syllabus-policies

THE INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE AT THE DISCRETION OF THE INSTRUCTOR.