

Helen and John C. Hartmann
Department of Electrical and Computer Engineering
New Jersey Institute of Technology
Course Syllabus
Spring Semester 2020

Course Number and Title: ECE 101-002 Introduction to Electrical & Computer Engineering

Instructor: Ryoko Mathes

E-mail: mathes@njit.edu, Office Location: ECEC 235

Office Hours: By Appointment

Text book: None required

Pre-requisite: None

Days and Times: Tuesdays, 5:00 pm- 6:00 pm

Location: TIERNAN LECT 1/Canvas

ECE 101 Course Description: This freshman level course is designed to familiarize students with various disciplines, career opportunities and curricula in electrical and computer engineering. Invited speakers include faculty and industrial representatives.

Learning Outcome: Upon completion of this course, students will demonstrate:

- The understanding of variety career options available for electrical and computer engineers
- The understanding of curriculum and requirements of the ECE curriculum

Assignments: There are two assignments in this course. The details of the assignments will be announced on Moodle one week prior to the due date. **All assignments are due at the beginning of the class on the due date.**

Grading: The course grade will be “S,” Satisfactory, or “U,” Unsatisfactory based on attendance and assignments.

- **Attendance is mandatory and missing class is grounds for the unsatisfactory grade.** Attendance is taken every week. **Tardiness is unacceptable in this course and will be counted as absent. No late comers will be allowed in the class.**
- All excused absences will need to be reported to the Dean of Students Office
- **No phones and laptop allowed in the class**
- Assignments must be turned in at the beginning of the class. **No late assignments will be accepted.** Missing assignments are ground for and unsatisfactory grade for the course.

The NJIT Honor Code is strictly enforced in this course. No student is allowed to sign-in or submit the lecture notes for who is not present. **Forging signature for others will result in U grade in the class.**

Course Schedule:

Date	Lecture	Speaker	Assignment
1/21/2020	Introduction to Electrical and Computer Engineering Department		
1/28/2020	Student Panel Surviving ECE	ECE students and alumni	Goals for the new semester
2/4/2020	Career Preparation	Gabriella Gutierrez	
2/11/2020	Guest Speaker	Doru Popescu	
2/18/2019	Student Panel	IEEE/ NJIT Solar Car Team	
2/25/2019	Guest Speaker	Kevin Carswell	
3/3/2019	Guest Speaker	Arsalan Gilani	Mid-term reflection
3/10/2019	Registration	Ryoko Mathes	
3/17/2019	<i>Spring Recess-No Class</i>		
3/24/2019	Control Systems	Canvas Instruction/Assignment	IEEE “Control Systems are Ubiquitous” article discussion
3/31/2019	Signal Processing	Canvas Instruction/Assignment	IEEE Signal Processing Society article and video discussion
4/7/2019	Wrap up	Canvas Instruction/Assignment	Advise for the next year’s first-year students