Fall 2018

FED 101 - ECE Fundamentals of Engineering Design

John Carpinelli

Follow this and additional works at: https://digitalcommons.njit.edu/ece-syllabi

Recommended Citation

This Syllabus is brought to you for free and open access by the NJIT Syllabi at Digital Commons @ NJIT. It has been accepted for inclusion in Electrical and Computer Engineering Syllabi by an authorized administrator of Digital Commons @ NJIT. For more information, please contact digitalcommons@njit.edu.
Helen and John C. Hartmann Department of
Electrical and Computer Engineering New Jersey
Institute of Technology
Course Syllabus

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

Instructor:  Ryoko Mathes
E-mail:  mathes@njit.edu, Office Location: ECEC 235, Telephone: 973-596-3510

Office Hours:  By Appointment- Please call the office (972-596-3510)

Text book:  None required
Pre-requisite:  None
Days and Times:  Tuesdays, 5:00 pm- 6:00 pm
Location:  WEST LECT 1

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.

  Assignment 1: Reflection on student work and research experience panel
    Due: January 31
  Assignment 2: Career and Educational Action Plans
    Due: April 18

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. The door closes at 5:00 pm and 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.

Course Schedule:

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture</th>
<th>Speaker</th>
<th>Assignment Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/17/2017</td>
<td>Introduction to Electrical and Computer Engineering</td>
<td>Dr. Leonid Tsybeskov, Chair</td>
<td></td>
</tr>
<tr>
<td>1/24/2017</td>
<td>Student Panel</td>
<td>ECE students</td>
<td></td>
</tr>
<tr>
<td>1/31/17</td>
<td>Guest Speaker</td>
<td>TBA</td>
<td>Reflection on student work and research experience panel due</td>
</tr>
<tr>
<td>2/7/2017</td>
<td>Guest Speaker</td>
<td>TBA</td>
<td></td>
</tr>
<tr>
<td>2/14/2017</td>
<td>Guest Speaker</td>
<td>TBA</td>
<td></td>
</tr>
<tr>
<td>2/21/2017</td>
<td>Student Panel</td>
<td>IEEE</td>
<td></td>
</tr>
<tr>
<td>2/28/2017</td>
<td>Guest Speaker</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/7/2016</td>
<td>ECE Curriculum and advising</td>
<td>Ryoko Mathes</td>
<td></td>
</tr>
<tr>
<td>3/14/2016</td>
<td>Spring Recess-No Class</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/21/2016</td>
<td>Guest Speaker</td>
<td>Brian Kiernan</td>
<td></td>
</tr>
<tr>
<td>3/28/2016</td>
<td>Guest Speaker</td>
<td>Leon Baptise</td>
<td></td>
</tr>
<tr>
<td>4/4/2016</td>
<td>Guest Speaker</td>
<td>Kevin Carswel, Solid State Cooling Systems</td>
<td></td>
</tr>
<tr>
<td>4/11/2016</td>
<td>Guest Speaker</td>
<td>David Haessig, BAE</td>
<td></td>
</tr>
<tr>
<td>4/18/2016</td>
<td>Guest Speaker</td>
<td>Doru Popescu, Keysights Technologies</td>
<td>Career and Educational Action Plans Due</td>
</tr>
<tr>
<td>4/26/2016</td>
<td>Wrap up</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>