

**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

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**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

Assignment 2: Career and Educational Action Plans

**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:**

| Lecture   | Speaker                                    | Assignment Due   |
|---|--|--|
| Introduction to Electrical and Computer Engineering | Dr. Leonid Tsybeskov, Chair                |  |
| Student Panel<br>Coop and research experience       | ECE students                               |  |
| Guest Speaker                                       | Don Blackman                               | Reflection on student work and research experience panel due |
| Guest Speaker                                       | Rulei Ting, PhD                            |  |
| Guest Speaker                                       | TBA  |  |
| Student Panel                                       | IEEE                                       |  |
| Guest Speaker                                       | TBA  |  |
| ECE Curriculum and advising                         | Ryoko Mathes                               |  |
| <i>Spring Recess-No Class</i>                       |  |  |
| Guest Speaker                                       | Brian Kiarnan                              |  |
| Guest Speaker                                       | Leon Baptise                               |  |
| Guest Speaker                                       | Kevin Carswel, Solid State Cooling Systems |  |
| Guest Speaker                                       | David Hassing, PhD BAE                     |  |
| Guest Speaker                                       | Doru Popescu, Keysights Technologies       | Career and Educational Action Plans Due                      |
| Wrap up   |  |  |

- The order of the topic and speaker may change depending on speaker availability.

NJIT Honor Code will be upheld, and any violations will be brought to the immediate attention of the Dean of Students.