## Prerequisite List of the Department of Mechatronics Engineering (Spring 2010)

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>COURSE</th>
<th>Following Courses</th>
</tr>
</thead>
</table>

### FIRST YEAR; I. Semester

- None
- MATH 157: Extended Calculus I
- PHYS 101: Physics I
- CHEM 102: Chemistry
- COMPE 101: Introduction to Computers & Programming
- E 101: Fundamentals of Engineering
- TURK 101: Turkish Language I
- Qualifying Examination: ENG **

### FIRST YEAR; II. Semester

- Consent of MATH Dept.: MATH 158
- Consent of PHYS Dept.: PHYS 102
- Consent of COMPE Dept.: COMPE 102
- None
- MECE 102: Fundamentals of Mechatronics Engineering
- None
- Consent of the Instructor: TURK 102

### SECOND YEAR; III. Semester

- Consent of MATH Dept.: MATH 276: Linear Algebra
- PHYS 101 (DD): MECE 301, MECE 307
- Consent of the MATE Dept.: MATE 208: Introduction to Engineering Materials
- PHYS 102 (DD): MECE 211: Electrical Systems Analysis
- Consent of IE Dept.: IE 220: Probability and Statistics
- Consent of the Instructor: HIST 101: Principles of Atatürk & History of Turkish Revolution I

### SECOND YEAR; IV. Semester

- Consent of MATH Dept.: MATH 276: Linear Algebra
- MECE 211 (FD): MECE 301, MECE 307
- MECE 104 (DD): MECE 203, MECE 307
- Consent of MFGE Dept.: MFGE 206: Manufacturing Processes
- Consent of the Instructor: HIST 102: Principles of Atatürk & History of Turkish Revolution II

### THIRD YEAR; V. Semester

- MATH 275 (FD), MATH 276 (FD): MECE 301: Numerical Methods
- MECE 204 (FD): MECE 303: Theory of Machines
- MECE 305 (FD): MECE 308
- Consent of IE Dept.: IE 305: Engineering Economic Analysis
- Consent of the Instructor: NTE
- Consent of the MECE Dept.: MECE 399: Summer Practice I

### THIRD YEAR; VI. Semester

- MECE 212 (FD): MECE 302: Mechatronic Components
- MECE 203 (FD): MECE 304: Mechanical Machine Elements
- MECE 307 (FD): MECE 306: Control Systems
- MECE 212 (FD), MECE 305 (FD): MECE 308: Microcontrollers
- MATH 276 (FD): MECE 310: Thermodynamics and Heat Transfer
- Consent of the Instructor: NTE

### FOURTH YEAR; VII. Semester

- Graduation Status: MECE 401: Mechatronic Design I
- Graduation Status: MECE 403: Mechatronic Instrumentation
- Graduation Status: MECE 407: Undergraduate Research Project I
- Consent of the Instructor: TE
- Consent of the Instructor: TE
- MECE 399: MECE 499: Summer Practice II

### FOURTH YEAR; VIII. Semester

- MECE 401 (DD): MECE 402: Mechatronic Design II
- None
- MECE 407 (DD): MECE 408: Undergraduate Research Project II
- Consent of the Instructor: TE
- Consent of the Instructor: TE

### GRADUATE COURSES

- Consent of the Instructor: MECE 5XX

A prerequisite course is a course that a student must have at least an "acceptable grade" to register the follower course(s).

Acceptable grades for all of the prerequisite courses are minimum required grades defined for each course.

Acceptable grades may be defined separately for each of the prerequisite courses by the department faculty.

Graduation Status is achieved if a student may graduate within three regular terms by registering maximum allowed course load as defined by the university rules to register ENG *** courses are defined by the scores of the "Proficiency and Placement Examination" and ENG Department.