

Prerequisite List of the Department of Mechatronics Engineering (Fall 2013)

COURSE		Prerequisite
FIRST YEAR; I. Semester		
MATH 157	Extended Calculus I	None
PHYS 101	Physics I	None
CHEM 102	Chemistry	None
COMPE 101	Introduction to Computers & Programming	None
MECE 101	Fundamentals of Engineering	None
TURK 101	Turkish Language I	None
ENG 101	English Communication Skills I	English Language Qualification Exam.
FIRST YEAR; II. Semester		
MATH 158	Extended Calculus II	Consent of MATH Department
PHYS 102	Physics II	Consent of PHYS Department
COMPE 102	Computer Programming	Consent of COMPE Department
MECE 102	Fundamentals of Mechatronics Engineering	None
MECE 104	Computer Aided Engineering Drawing	None
ENG 102	English Communication Skills II	Consent of the ENG Department
TURK 102	Turkish Language I	Consent of TURK Department
SECOND YEAR; III. Semester		
MATH 275	Linear Algebra	Consent of MATH Department
MECE 203	Statics and Mechanics of Materials	PHYS 101
MECE 211	Electrical Systems Analysis	PHYS 102
MATE 208	Introduction to Engineering Materials	Consent of MATE Department
IE 220	Probability and Statistics	Consent of IE Department
ENG 201	Advanced Communication Skills	Consent of the ENG Department
SECOND YEAR; IV. Semester		
MATH 276	Differential Equations	Consent of MATH Department
MECE 202	Principles of Engineering Design	MECE 104
MECE 204	Dynamics	MECE 203
MFGE 206	Manufacturing Processes	Consent of MFGE Department
MECE 212	Electronic Circuits	MECE 211
ENG 204	Report Writing Skills	Consent of the ENG Department
THIRD YEAR; V. Semester		
MECE 301	Numerical Methods	MATH 276
MECE 303	Theory of Machines	MECE 204
MECE 305	Digital Systems	None
MECE 307	Signals and Mechatronic Systems	MATH 275, MATH 276
NTE	Humanities & Social Sciences Elective	Consent of the Course Instructor
HIST 101	Principles of Atatürk & History of Turkish Revolution I	Consent of HIST Department
MECE 399	Summer Practice I	Consent of the Department
THIRD YEAR; VI. Semester		
MECE 302	Mechatronic Components	None
MECE 304	Mechanical Machine Elements	MECE 203
MECE 306	Dynamic Systems and Control I	MATH 275, MATH 276
MECE 308	Microcontrollers	None
MECE 310	Thermodynamics and Heat Transfer	None
HIST 102	Principles of Atatürk & History of Turkish Revolution II	Consent of HIST Department
NTE	Humanities & Social Sciences Elective	Consent of the Course Instructor
FOURTH YEAR; VII. Semester		
MECE 401	Mechatronic Design I	Graduation Status
MECE 403	Mechatronic Instrumentation	Graduation Status
MECE 405	Dynamic Systems and Control II	MECE 306
MECE 407	Undergraduate Research Project I	Graduation Status
TE	Technical Elective	Consent of the Course Instructor
TE	Technical Elective	Consent of the Course Instructor
MECE 499	Summer Practice II	Consent of the Department
FOURTH YEAR; VIII. Semester		
MECE 402	Mechatronic Design II	MECE 401
MECE 404	Intelligent Mechatronics	None
MECE 406	Digital Control	MECE 306
MECE 408	Undergraduate Research Project II	MECE 407
IE 305	Engineering Economic Analysis	Consent of IE Department
TE	Technical Elective	Consent of the Course Instructor
ORY 400	Social and Cultural Activities	None
GRADUATE COURSES		
MECE 5XX	All Courses	Consent of the Course Instructor