

## PROPOSED CURRICULUM

### Semester 1

Code	Course Title	C	P	L	Cr	ECTS
CMPE 113	Fundamentals of Programming I	2	0	2	3	5
ENG 101	English for Academic Purposes	2	2	0	3	5
LIBE110	Critical Perspectives on Humanity	3	0	0	3	5
PHYS 101	General Physics I	3	0	2	4	6
MATH 101	Calculus of One Variable	3	2	0	4	7
TUR 101/150	Turkish I	2	0	0	2	2
TEDU 101	First Year Experience at TEDU	0	0	0	0	1
<b>Semester Credits Total</b>		15	4	4	19	31

### Semester 2

Code	Course Title	C	P	L	Cr	ECTS
ENG 102	Expository Writing	2	2	0	3	5
MATH 102	Multivariable Calculus	3	2	0	4	7
TUR 102/160	Turkish II	2	0	0	2	2
CMPE 114	Fundamentals of Programming II	2	0	2	3	6
LIBE 120	Foundations and Frontiers of Science	2	2	0	3	5
PHYS 102	General Physics II	3	0	2	4	6
TEDU 102	Service Learning	1	0	0	1	1
<b>Semester Credits Total</b>		15	6	4	20	32

### Semester 3

Code	Course Title	C	P	L	Cr	ECTS
CMPE 223	Data Structures and Algorithms I	3	0	0	3	6
MATH 220	Linear Algebra	3	0	0	3	5
LIBE 140	Social and Political Studies	3	0	0	3	5
LIBE 130	Art and Design	3	0	0	3	5
SENG 261	Computer Organization	2	0	2	3	6
HIST 101/HIST 150	History of Turkish Republic I	2	0	0	2	2
<b>Semester Credits Total</b>		16	0	2	17	29

### Semester 4

Code	Course Title	C	P	L	Cr	ECTS
MATH 244	Differential Equations	3	0	0	3	5

MATH 250	Discrete Math for Engineers	3	0	0	3	5
SENG 216	Web Programming	3	0	0	3	6
SENG 212	Software Requirements Engineering	3	0	0	3	6
SENG 218	Object Oriented Analysis and Design	3	0	0	3	6
HIST 102/HIST 160	History of Turkish Republic II	2	0	0	2	2
	Semester Credits Total	17	0	0	17	30

**Semester 5**

<b>Code</b>	<b>Course Title</b>	<b>C</b>	<b>P</b>	<b>L</b>	<b>Cr</b>	<b>ECTS</b>
SENG 399	Internship I	1	0	0	1	2
MATH 240	Introduction to Probability and Statistics for Engineers	3	0	0	3	6
LIBE 150	Critical Perspectives in World Literature	3	0	0	3	5
SENG 311	Software Validation and Verification	3	0	0	3	5
SENG 313	Software Project Management	3	0	0	3	5
SENG 315	Software Architectures	3	0	0	3	6
	Semester Credits Total	16	0	0	16	29

**Semester 6**

<b>Code</b>	<b>Course Title</b>	<b>C</b>	<b>P</b>	<b>L</b>	<b>Cr</b>	<b>ECTS</b>
CMPE 442	Introduction to Machine Learning	3	0	0	3	5
CMPE 382	Operating Systems	3	0	0	3	5
SENG-ELE	Departmental Track/Elective I	3	0	0	3	5
FREE	Free Elective I	3	0	0	3	5
CMPE 326	Concepts of Programming Languages	3	0	0	3	5
CMPE 232	Database Systems	3	0	0	3	5
	Semester Credits Total	18	0	0	18	30

**Semester 7**

<b>Code</b>	<b>Course Title</b>	<b>C</b>	<b>P</b>	<b>L</b>	<b>Cr</b>	<b>ECTS</b>
SENG 499	Internship II	1	0	0	1	4
SENG 491	Senior Project I	1	2	0	2	5
SENG-ELE	Departmental Track/Elective	3	0	0	3	5
SENG-ELE	Departmental Track/Elective	3	0	0	3	5
Math/Sci	Math/Sci Elective	3	0	0	3	5
<b>CMPE 453</b>	<b>Embedded Systems</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>6</b>
	Semester Credits Total	13	2	2	15	30

**Semester 8**

<b>Code</b>	<b>Course Title</b>	<b>C</b>	<b>P</b>	<b>L</b>	<b>Cr</b>	<b>ECTS</b>
SENG 442	Parallel and Distributed Computing	3	0	0	3	6
SENG 492	Senior Project II	1	2	0	2	8
SENG 444	Social Issues and Professional Practices	3	0	0	3	5
SENG-ELE	Departmental Track/Elective IV	3	0	0	3	5

FREE	Free Elective II	3	0	0	3	5
	Semester Credits	13	2	0	14	29
	<b>Total Credits for Graduation</b>	123	14	12	136	240