

**ENGINEERING FACULTY / INSTITUTE
CHEMICAL ENGINEERING DEPARTMENT
2012-2013 CURRICULUM**

FIRST YEAR					
1. Semester					
Code	Name of the Course	T	A	C	ECTS
CEAC101	Introduction to Chemical Engineering	2	0	2	3.0
CEAC103	General Chemistry I	3	2	4	6.0
COMPE101	Introduction to Computers and Programming	2	2	3	3.0
MATH157	Extended Calculus I	4	2	5	7.5
PHYS101	General Physics I	3	2	4	6.0
ENG101	English For Academic Purposes I	4	0	4	4.5
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2. Semester					
Code	Name of the Course	T	A	C	ECTS
CEAC104	General Chemistry II	3	2	4	5.5
CMPE102	Computer Programming	2	2	3	4.0
ENG102	English for Academic Purposes II	2	2	3	4.0
MATH158	Extended Calculus II	4	2	5	7.5
PHYS102	General Physics II	3	2	4	6.0
MFGE256 (MFGE108)	Computer Aided Solid Modelling	3	0	3	3.0
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SECOND YEAR					
3. Semester					
Code	Name of the Course	T	A	C	ECTS
CEAC201	Analytical Chemistry	3	2	4	6.0
CEAC203	Physical Chemistry	3	2	4	6.0
CEAC207	Chemical Process Calculations	4	0	4	5.0
ENG201	English for Academic Purposes III	1	2	2	3.0
MATH275	Linear Algebra	4	0	4	6.0
TURK101	Turkish Language I	2	0	2	2.0
HIST101	Principles of Atatürk and History of Turkish Revolution I	2	0	2	2.0
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4. Semester					
Code	Name of the Course	T	A	C	ECTS
CEAC202	Organic Chemistry	3	2	4	6.0
CEAC204	Thermodynamics	3	0	3	5.0
CEAC208	Mass and Energy Balances in Engineering	3	0	3	6.0
ENG204	Report Writing Skills	2	0	2	3.0
HIST102	Principles of Atatürk and History of Turkish Revolution II	2	0	2	2.0
MATH276	Differential Equations	4	0	4	6.0
TURK102	Turkish Language II	2	0	2	2.0
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THIRD YEAR					
5. Semester					
Code	Name of the Course	T	A	C	ECTS
CEAC305	Inorganic Chemistry	3	0	3	5.0
CEAC301	Fluid Mechanics	3	0	3	6.0
IE305	Engineering Economy	3	0	3	5.0
CEAC307	Biochemistry	3	0	3	5.0
GE	Non-technical Elective			3	5.0
CEAC300	Summer Practice I			NC	4.0
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6. Semester					
Code	Name of the Course	T	A	C	ECTS
CEAC302	Separation Processes	3	0	3	6.0
CEAC304	Chemical Reaction Engineering	3	0	3	7.0
CEAC306	Heat and Mass Transfer	4	0	4	7.0
TE	Technical Elective			3	5.0
GE	Non-Technical Elective			3	5.0
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FOURTH YEAR					
7. Semester					
Code	Name of the Course	T	A	C	ECTS
CEAC401	Chemical Engineering Laboratory I	0	4	2	6.0
CEAC405	Chemical Engineering Design I	2	2	3	5.0
CEAC407	Process Modeling, Dynamics and Control	3	0	3	5.0
CEAC419	Transport Phenomena	3	0	3	5.0
TE	Technical Elective			3	5.0
CEAC400	Summer Practice II			NC	4.0
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8. Semester					
Code	Name of the Course	T	A	C	ECTS
CEAC402	Chemical Engineering Laboratory II	0	4	2	6.0
CEAC404	Graduation Project	1	4	3	8.0
ORY400	Participation to Social and Cultural Events	0	0	0	1.0
TE	Technical Elective			3	5.0
TE	Technical Elective			3	5.0
TE	Technical Elective			3	5.0
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