

DOĞUŞ UNIVERSITY
Faculty of Engineering
Information Systems Engineering Program Curriculum
(Regular)

Total Credits Required for Graduation: 137

Average Credit Load Per Semester: 18

Total ECTS: 242

Semester I

Code	Title	T	P	L	Cr	ECTS	Prereq.
COME 107	Algorithms and Programming I	3	0	2	4	6	
ECON 101	Introduction to Economics	3	0	0	3	6	
ENG 101	Advanced English	0	4	0	2	3	
MATH 111	Calculus I	3	2	0	4	6	
PHYS 101	Physics I	3	0	2	4	6	
TÜRK 101	Turkish Language I	2	0	0	2	3	
					19	30	

Semester III

Code	Title	T	P	L	Cr	ECTS	Prereq.
BA 241	Management and Organization	3	0	0	3	6	BA 102
CEE 102	Logic Circuits	2	0	2	3	5	
COME 211	Discrete Computational Structures	3	0	0	3	6	
ISE 204	Object Oriented Programming	2	0	2	3	6	COME 107
MATH 213	Linear Algebra	3	0	0	3	4	
TAR 201	Principles of Atatürk and History of the Revolution I	2	0	0	2	3	
					17	30	

Semester V

Code	Title	T	P	L	Cr	ECTS	Prereq.
BA 313	Accounting For Engineers	3	0	0	3	5	
COME 361	Operating Systems	2	0	2	3	6	
HUM 301	History of Civilization I	3	0	0	3	4	
ISE 303	Database Design and Administration	3	0	2	4	8	
	Departmental Elective				3	5	
	Departmental Elective				3	5	
					19	33	

Semester VII

Code	Title	T	P	L	Cr	ECTS	Prereq.
COME 411	Computer Networks	3	0	0	3	6	
ENG 401	Communication Skills in English	0	4	0	2	3	
ISE 401	Data Warehousing and Mining	2	0	2	3	6	
ISE 491	Project	1	2	0	2	7	
	Departmental Elective				3	6	
	Faculty Elective				3	5	
					16	33	

(*) 100 credits should be successfully completed.

Semester II

Code	Title	T	P	L	Cr	ECTS	Prereq.
BA 102	Introduction to Business Administration	3	0	0	3	6	
COME 108	Algorithms and Programming II	2	0	2	3	6	
ENG 112	Advanced English For Engineering Studies	0	4	0	2	3	ENG 101
MATH 112	Calculus II	3	2	0	4	6	MATH 111
PHYS 102	Physics II	3	0	2	4	6	
TÜRK 102	Turkish Language II	2	0	0	2	3	
					18	30	

Semester IV

Code	Title	T	P	L	Cr	ECTS	Prereq.
COME 218	Data Structures and Algorithms	2	0	2	3	6	COME 107 veya COME 106
ISE 202	Digital Design & Computer Arc.	3	0	2	4	6	CEE 102
MATH 214	Differential Equations	2	2	0	3	6	MATH 111
STAT 203	Engineering Statistics I	2	2	0	3	4	
TAR 202	Principles of Atatürk and History of the Revolution II	2	0	0	2	3	
					15	25	

Semester VI

Code	Title	T	P	L	Cr	ECTS	Prereq.
COME 342	Introduction to Software Engineering	2	0	2	3	6	
HUM 302	History of Civilization II	3	0	0	3	4	
IE 338	Production Systems Analysis	3	0	0	3	4	
ISE 302	Information Systems Analysis	3	0	0	3	6	
	Departmental Elective				3	5	
	Faculty Elective				3	5	
					18	30	

Semester VIII

Code	Title	T	P	L	Cr	ECTS	Prereq.
CDS 490	Cultural Development Seminar	0	1	0	0	0	
ISE 492	Graduation Project	0	6	0	3	9	(*)
	Departmental Elective				3	6	
	Departmental Elective				3	6	
	University Elective				3	5	
	University Elective				3	5	
					15	31	

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(Irregular)

Total Credits Required for Graduation: 137

Average Credit Load Per Semester: 18

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PREP

Semester II

Code	Title	T	P	L	Cr	ECTS	Prereq.
CEE 102	Logic Circuits	2	0	2	3	5	
COME 108	Algorithms and Programming II	2	0	2	3	6	
COME 211	Discrete Computational Structures	3	0	0	3	6	
ECON 101	Introduction to Economics	3	0	0	3	6	
ENG 112	Advanced English For Engineering Studies	0	4	0	2	3	ENG 101
MATH 111	Calculus I	3	2	0	4	6	
					18	32	

Semester IV

Code	Title	T	P	L	Cr	ECTS	Prereq.
BA 241	Management and Organization	3	0	0	3	6	BA 102
COME 361	Operating Systems	2	0	2	3	6	
ISE 204	Object Oriented Programming	2	0	2	3	6	COME 107
ISE 303	Database Design and Administration	3	0	2	4	8	
MATH 214	Differential Equations	2	2	0	3	6	MATH 111
					16	32	

Semester VI

Code	Title	T	P	L	Cr	ECTS	Prereq.
BA 313	Accounting For Engineers	3	0	0	3	5	
HUM 301	History of Civilization I	3	0	0	3	4	
ISE 401	Data Warehousing and Mining	2	0	2	3	6	
	Departmental Elective				3	5	
	Faculty Elective				3	5	
					15	25	

Semester VIII

Code	Title	T	P	L	Cr	ECTS	Prereq.
CDS 490	Cultural Development Seminar	0	1	0	0	0	
COME 411	Computer Networks	3	0	0	3	6	
ISE 492	Graduation Project	0	6	0	3	9	(*)
	Departmental Elective				3	6	
	Departmental Elective				3	6	
	University Elective				3	5	
					15	32	

(*) 100 credits should be successfully completed.

Semester I

Code	Title	T	P	L	Cr	ECTS	Prereq.
BA 102	Introduction to Business Administration	3	0	0	3	6	
COME 107	Algorithms and Programming I	3	0	2	4	6	
ENG 101	Advanced English	0	4	0	2	3	
MATH 213	Linear Algebra	3	0	0	3	4	
PHYS 101	Physics I	3	0	2	4	6	
TÜRK 104	Turkish Language	4	0	0	4	6	
					20	31	

Semester III

Code	Title	T	P	L	Cr	ECTS	Prereq.
ISE 202	Digital Design & Computer Arc.	3	0	2	4	6	CEE 102
MATH 112	Calculus II	3	2	0	4	6	MATH 111
PHYS 102	Physics II	3	0	2	4	6	
STAT 203	Engineering Statistics I	2	2	0	3	4	
TAR 104	Principles of Atatürk and History of the Revolution	4	0	0	4	6	
					19	28	

Semester V

Code	Title	T	P	L	Cr	ECTS	Prereq.
COME 218	Data Structures and Algorithms	2	0	2	3	6	COME 107 veya COME 106
COME 342	Introduction to Software Engineering	2	0	2	3	6	
ISE 302	Information Systems Analysis	3	0	0	3	6	
	Departmental Elective				3	5	
	Departmental Elective				3	5	
	University Elective				3	5	
					18	33	

Semester VII

Code	Title	T	P	L	Cr	ECTS	Prereq.
ENG 401	Communication Skills in English	0	4	0	2	3	
HUM 302	History of Civilization II	3	0	0	3	4	
IE 338	Production Systems Analysis	3	0	0	3	4	
ISE 491	Project	1	2	0	2	7	
	Departmental Elective				3	6	
	Faculty Elective				3	5	
					16	29	

DOĞUŞ UNIVERSITY
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Fall

DEPARTMENTAL ELECTIVES

Spring

Code	Title	T	P	L	C r	ECTS	Prereq.
COME 327	Microprocessors and Microcontrollers	2	0	2	3	6	
COME 337	Rapid Application Development with Delphi	2	0	2	3	5	
COME 339	Advanced Java Applications	2	0	2	3	5	
COME 345	Information Systems Analysis and Design	2	0	2	3	5	
COME 355	Analysis of Algorithms	3	0	0	3	5	
COME 423	Advanced Micro-Electronics	3	0	0	3	6	
COME 431	Instrumentation and Control	2	0	2	3	6	
COME 433	Robotics	2	2	0	3	6	
COME 439	Computer Graphics	2	0	2	3	6	
COME 441	Object Oriented System Development	2	0	2	3	6	
COME 447	Knowledge Based Systems	3	0	0	3	6	
COME 493	Fuzzy-System and Neural-Network Computing	3	0	0	3	6	
ISE 305	Multimedia Systems	2	0	2	3	5	
ISE 309	GUI Development with Delphi	2	0	2	3	5	
ISE 311	Distributed Databases	2	0	2	3	5	
ISE 313	Expert Systems	2	0	2	3	5	
ISE 315	Industrial Automation Systems	2	0	2	3	5	
ISE 317	Engineering Applications with MATLAB	2	0	2	3	5	
ISE 319	Decision Making Analysis	3	0	0	3	5	

Code	Title	T	P	L	C r	ECTS	Prereq.
COME 214	Programming Language Concepts	2	0	2	3	6	
COME 302	Information and Data Analysis	2	0	2	3	5	
COME 304	Numerical Methods	3	0	0	3	5	
COME 332	Computer Aided Design and Engineering	2	0	2	3	5	
COME 334	Rapid Application Devel. with Microsoft .NET Framework	2	0	2	3	5	
COME 404	Automata Theory and Formal Languages	3	0	0	3	6	
COME 432	CAD/CAM, Robotics and Automation	2	2	0	3	6	
COME 436	Digital Image Processing	3	0	0	3	6	
COME 444	Artificial Intelligence	3	0	0	3	6	
COME 446	Compiler Design	3	0	0	3	6	
COME 448	Data Mining and Knowledge Discovery	2	0	2	3	6	
COME 450	Distributed Systems	3	0	0	3	6	
COME 472	Internet and Web Technologies	2	0	2	3	6	
ISE 304	Data Communications Systems	3	0	0	3	5	
ISE 310	Fundamentals of Digital Speech and Audio Processing	3	0	0	3	5	
ISE 312	Web-Site Design and Management	2	0	2	3	5	
ISE 314	Business Information Systems	2	0	2	3	5	
ISE 316	GUI Development with .NET Technologies	2	0	2	3	5	
ISE 318	Image Processing Techniques	2	0	2	3	5	
ISE 320	Computer Graphics with Open GL	2	0	2	3	5	
ISE 402	Manufacturing Information Systems	3	0	0	3	6	
ISE 404	Electronic Business and Commerce Systems	3	0	0	3	6	

Fall

FACULTY ELECTIVES

Spring

Code	Title	T	P	L	C r	ECTS	Prereq.
CEE 201	Electrical Circuits	3	0	2	4	6	MATH 213
CEE 241	Electromagnetic Fields	2	2	0	3	6	MATH 214
CEE 311	Analog Communication	3	0	2	4	6	CEE 232 veya CEE 313
CEE 313	Signals and Systems	2	2	0	3	5	CEE 232 veya CEE 313
CEE 331	Digital Signal Processing	2	0	2	3	6	CEE 232 veya CEE 313
CONT 311	Power Electronic Circuits	2	0	2	3	6	
CONT 313	Feedback Control Systems	3	0	2	4	8	
CONT 315	Motion Control Systems	3	0	0	3	5	MATH 214
ESCI 107	Science,Technology and Society	3	0	0	3	5	
IE 301	Operations Research I	2	2	0	3	6	MATH 213
IE 303	Game Theory for Engineers	3	0	0	3	6	STAT 203
IE 335	Total Quality Management	3	0	0	3	4	
IE 401	Mathematical Modeling	3	0	0	3	6	IE 301
IE 425	Computer Integrated Manufacturing	2	0	2	3	6	

Code	Title	T	P	L	C r	ECTS	Prereq.
CEE 222	Electronic Circuits I	3	0	2	4	6	CEE 201
CEE 232	Discrete Time Signals and Systems	2	2	0	3	5	MATH 214
CEE 244	Electromagnetic Waves	2	2	0	3	6	CEE 241
CONT 202	Continuous-Time Signals & Systems	3	0	0	3	6	
CONT 212	Electrical Measurements & Sensors	2	0	2	3	6	
CONT 312	Computer Controlled Systems	2	0	2	3	6	
ESCI 106	Introduction to Solid Mechanics	2	2	0	3	6	
IE 302	Operations Research II	2	2	0	3	6	IE 301
IE 356	Business and Society	3	0	0	3	6	
IE 362	Engineering Economy	3	0	0	3	4	
IE 406	Systems Simulation	2	2	0	3	6	STAT 203
IE 438	Product and Process Development	3	0	0	3	6	IE 335
IE 476	Environmental Studies	3	0	0	3	6	
ME 103	Computer Aided Engineering Graphics	2	0	2	3	6	

Fall

UNIVERSITY ELECTIVES

Spring

Code	Title	T	P	L	C r	ECTS	Prereq.
ALM 10 x	German X (from I to VIII inclusive)	2	2	0	3	5	
BA 211	Financial Accounting I	3	0	0	3	6	
BA 351	Marketing Management	3	0	0	3	6	BA 102
BA 447	Project Management	3	0	0	3	6	
CIN 10 x	Chinese X (from I to VIII inclusive)	2	2	0	3	5	

Code	Title	T	P	L	C r	ECTS	Prereq.
ALM 10 x	German X (from I to VIII inclusive)	2	2	0	3	5	
BA 242	Organizational Behavior	3	0	0	3	6	BA 102
BA 344	Human Resources Management	3	0	0	3	6	BA 102
BA 352	International Marketing	3	0	0	3	6	BA 102
BA 442	Management Information Systems	3	0	0	3	6	

CS 103	Introduction to Communication Studies	3	2	0	4	8	
ECON 211	Microeconomics	3	0	0	3	6	ECON 101
ECON 321	International Economics	3	0	0	3	6	ECON 101
ELIT 101	Grammar and Composition	2	4	0	4	8	
ELIT 291	Film as Text	2	2	0	3	5	
FA 105	Modern Art	3	0	0	3	5	
FA 305	Art Culture	3	0	0	3	5	
FRA 10 x	French X (from I to VIII inclusive)	2	2	0	3	5	
GS 301	Music	3	0	0	3	5	
IR 101	Introduction to Political Studies	3	0	0	3	6	
IR 303	Current Issues in World Politics	3	0	0	3	6	
IR 313	International Organizations	3	0	0	3	6	
IR 413	Current Issues in Turkish Politics I	3	0	0	3	6	
ISP 10 x	Spanish X (from I to VIII inclusive)	2	2	0	3	5	
ITA 10 x	Italian X (from I to VIII inclusive)	2	2	0	3	5	
JAP 10 x	Japanese X (from I to VIII inclusive)	2	2	0	3	5	
PHIL 311	Ethics	3	0	0	3	5	
PSY 103	Introduction to Psychology	3	2	0	4	8	
PSY 223	Social Psychology	3	2	0	4	8	
RUS 101	Russian I	2	2	0	3	5	

BA 448	Interactive Business Skills	3	0	0	3	6	
CIN 10 x	Chinese X (from I to VIII inclusive)	2	2	0	3	5	
ECON 212	Macroeconomics	3	0	0	3	6	ECON 101
ECON 324	Economic Development	3	0	0	3	6	ECON 101
ELIT 102	Reading and Composition	2	2	0	3	7	ELIT 107
FRA 10 x	French X (from I to VIII inclusive)	2	2	0	3	5	
GS 302	Performance Arts	3	0	0	3	5	
HUK 134	İşletme Hukuku	3	0	0	3	6	
HUM 402	Special Topics in Social Sciences II	3	0	0	3	5	
IR 112	Introduction to International Relations	3	0	0	3	6	
ISP 10 x	Spanish X (from I to VIII inclusive)	2	2	0	3	5	
ITA 10 x	Italian X (from I to VIII inclusive)	2	2	0	3	5	
JAP 10 x	Japanese X (from I to VIII inclusive)	2	2	0	3	5	
RUS 101	Russian I	2	2	0	3	5	
SOC 102	Introduction to Sociology	3	0	0	3	5	

OVERLOAD ELECTIVE

Code	Title	T	P	L	C r	ECTS	Prereq.
HSS 311	Career Planning and Management	0	2	0	1	3	

Attention: Students are allowed to take only one GS course and/or one Forcing Lng. course for credit

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