SABANCI UNIVERSITY - FACULTY OF FACULTY OF ENGINEERING AND NATURAL SCIENCES
COMPUTER SCIENCE ENGINEERING PROGRAM RECOMMENDED PROGRAM FAST TRACK 3)

Year -1 Freshman Semester-1

Course Code	Course Name	Course Type	Prerequisite Courses	SU Credits	Enginering Credits (ECTS)	Basic Science Credits (ECTS)	ECTS (Total)
MATH101	Calculus I	University C.		3	0	6	6
NS101	Science of Nature I	University C.		4	0	6	6
CIP101N	Civic Involvement Projects I	University C.		0	0	0	1
HIST191	Principles of Atatürk and the History of the Turkish Revolution I	University C.		2	0	0	3
SPS101	Humanity and Society I	University C.		3	0	0	6
TLL101	Turkish Language and Literature I	University C.		2	0	0	3
IF100	Computational Approaches to Problem Solving	University C.		3	5	0	5
			TERM TOTAL	**17**	**5**	**12**	**30**

The students have to take *Undergraduate Project Course (PROJ 201) on freshman or sophomore year.

Year -1 Freshman Semester-2

Course Code	Course Name	Course Type	Prerequisite Courses	SU Credits	Enginering Credits (ECTS)	Basic Science Credits (ECTS)	ECTS (Total)
MATH102	Calculus II	University C.	MATH 101	3	0	6	6
NS102	Science of Nature II	University C.	NS 101	4	0	6	6
AL102	Academic Literacies	University C.		3	0	0	5
HIST192	Principles of Atatürk and the History of the Turkish Revolution II	University C.	HIST 191	2	0	0	3
SPS102	Humanity and Society II	University C.	SPS 101	3	0	0	6
TLL102	Turkish Language and Literature II	University C.	TLL 101	2	0	0	3
CS 201	Introduction to Computing	Required	IF 100	3	6	0	6
			TERM TOTAL	**20**	**6**	**12**	**35**

The students have to take *Undergraduate Project Course (PROJ 201) on freshman or sophomore year.

Year -1 Freshman SUMMER

Course Code	Course Name	Course Type	Prerequisite Courses	SU Credits	Enginering Credits (ECTS)	Basic Science Credits (ECTS)	ECTS (Total)
CS 204	Advanced Programming	Required	CS 201	3	6	0	6
			TERM TOTAL	**3**	**6**	**0**	**6**

Year - 2 Sophomore Semester-3

Course Code	Course Name	Course Type	Prerequisite Courses	SU Credits	Enginering Credits (ECTS)	Basic Science Credits (ECTS)	ECTS (Total)
*PROJ 201	*Undergraduate Project Course	University C.		1	0	0	1
HUM 201/202/207	Major Works	University C.		3	0	0	5
CS 300	Data Structures	Required	CS 204	3	5	1	6
MATH 203	Introduction to Probability	Required	MATH 102	3	0	6	6
MATH 204	Discrete Mathematics	Required		3	0	6	6
PHYS 113 **	Basic Concepts of Physics for Scientists and Engineers	Required	NS 101 and Math 101	3	0	6	6
			TERM TOTAL	**16**	**5**	**19**	**30**

The students have to take *Undergraduate Project Course (PROJ 201) on freshman or sophomore year.

** PHYS 113 can be taken in any of the semesters during sophomore year.

Year - 2 Sophomore Semester-4

Course Code	Course Name	Course Type	Prerequisite Courses	SU Credits	Enginering Credits (ECTS)	Basic Science Credits (ECTS)	ECTS (Total)
CS 301	Algorithms	Required	CS 300, Math 204	3	5	1	6
CS 210	Intro. to Data Science	Core	MATH 203, IF 100	3	4	2	6
MATH 212	Linear Algebra and Differential Equations	Required	MATH 102	4	0	7	7
CS 306	Database Systems	Required	CS 204 or DSA 201	3	6	0	6
CORE/AREA/FREE		Elective		3			6
			TERM TOTAL	**16**	**15+Electives**	**10+Electives**	**31**

The students have to take *Undergraduate Project Course (PROJ 201) on freshman or sophomore year.

Year - 3 Junior Semester-5

Course Code	Course Name	Course Type	Prerequisite Courses	SU Credits	Enginering Credits (ECTS)	Basic Science Credits (ECTS)	ECTS (Total)
CS 303	Logic and Digital System Design	Required		4	6	1	7
CS308	Software Engineering	Required	CS 204	4	7	0	7
CORE/AREA/FREE		Elective		3			6
CORE/AREA/FREE		Elective		3			6
CORE/AREA/FREE		Elective		3			6
			TERM TOTAL	**17**	**13+Electives**	**1+Electives**	**32**

Year - 3 Junior Semester-6

Course Code	Course Name	Course Type	Prerequisite Courses	SU Credits	Enginering Credits (ECTS)	Basic Science Credits (ECTS)	ECTS (Total)
CORE/AREA/FREE		Elective		3			6
CORE/AREA/FREE		Elective		3			6
CORE/AREA/FREE		Elective		3			6
SPS 303		University C.		3	0	0	5
			TERM TOTAL	**15**	**Electives**	**Electives**	**29**

Year -3 Junior SUMMER

Course Code	Course Name	Course Type	Prerequisite Courses	SU Credits	Enginering Credits (ECTS)	Basic Science Credits (ECTS)	ECTS (Total)
CS 395	Summer Internship	Required C.	Junior Standing at the beginning of Spring	0	5	0	5
			TERM TOTAL	**0**	**5**	**0**	**5**

Year - 4 Senior Semester-7

Course Code	Course Name	Course Type	Prerequisite Courses	SU Credits	Enginering Credits (ECTS)	Basic Science Credits (ECTS)	ECTS (Total)
ENS 491	Graduation Project - Design	Required C.	CS 300 and 80 credits	1	2	0	2
CORE/AREA/FREE		Elective		3			6
CORE/AREA/FREE		Elective		3			6
CORE/AREA/FREE		Elective		3			6
CORE/AREA/FREE		Elective		3			6
CORE/AREA/FREE		Elective		3			6
			TERM TOTAL	**16**	**2+Electives**	**Electives**	**32**

Year - 4 Senior Semester-8

Course Code	Course Name	Course Type	Prerequisite Courses	SU Credits	Enginering Credits (ECTS)	Basic Science Credits (ECTS)	ECTS (Total)
ENS 492	Graduation Project - Implement	Required	ENS 491	3	5	0	5
CORE/AREA/FREE		Elective		3			6
CORE/AREA/FREE		Elective		3			6
CORE/AREA/FREE		Elective		3			6
			TERM TOTAL	**12**	**5+Electives**	**Electives**	**23**

SU CREDITS TOTAL: 132
ECTS TOTAL : 253 (minimum required 240)