

YAŞAR UNIVERSITY, COMPUTER ENGINEERING
Prerequisite Subject Areas for MS (with and without thesis) or PhD Study
October 21, 2020, v1.5

1. Candidate must provide some proof that he/she has basic programming skills and knowledge of at least one programming language (for example, at least one course on programming). Also, familiarity or a course on discrete computational structures is recommended. No courses will be offered to the candidate if he/she does not satisfy these conditions.
2. Candidate will take undergraduate courses in selected subject areas below, if he/she has not taken courses equivalent to courses shown below, in a preparation program (Bilimsel Hazırlık Programı) of maximum two semesters long.
3. PhD Program candidates will also take the course COMP 5506 Advanced Information Theory, if they did not take an equivalent course in their undergraduate or graduate study before.

	Subject Area	Example Courses in Computer Engineering and Software Engineering	
1	Object Oriented Programming	COMP 2215	Object Oriented Paradigms
2	Data Structures	COMP 1123 or COMP 2213 or COMP 2310	Data Structures I Data Structures II Data Structures and Algorithms (for SE Students)
3	Database Systems	SE 2222	Database Systems
4	Digital Design and/or Computer Organization	EEE 2110 or COMP 3315	Digital Design Computer Organization
5	Operating Systems	COMP 3323 or COMP 3310	Operating Systems Operating Systems and Networks (for SE Students)
6	Computer Networks	COMP 3317 or COMP 3310	Computer Networks Operating Systems and Networks (for SE Students)
7	Analysis and Design of Algorithms	SE 2228	Analysis and Design of Algorithms
8	Automata Theory	COMP 3330	Automata Theory
9	Software Engineering	SE 3304 or SE 2224	Introduction to Software Engineering Software System Analysis