



### MINOR IN SOFTWARE ENGINEERING

1. The Minor in Software Engineering is designed for all students who want to get basic and general knowledge in programming and selecting elective courses define the field of programming they prefer to master (short description).
2. To apply for minor, students must have a minimum of GPA 2.75 or higher in their major.
3. To earn the Minor degree in Software Engineering, students must earn a total of **42 credits**.
4. Other requirements (e.g., minimum course grades, examinations, etc.).

Course Name	Course abbrev.	ID	Cr.	Prerequisite	Comments
<b>Minor Requirements:</b>				<b>Total: 42 credits</b>	
<b>Required Courses for Minor</b>				<b>Total 30 credits</b>	
Introduction to Programming	COM-122	5682	6	-	
Object Oriented Programming	COM-119	4357	6	COM-122	
Data Structures	COM-229	5964	6	COM-119	
Algorithms	COM-239	6062	6	COM-229	
Database	COM-213	4773	6	COM-119	
<b>Elective Courses for Minor</b>				<b>Total 12 credits</b>	
Computer Graphics	COM- 391	4954	6	Algorithms	
Information Security	COM-424.1	3953	6	COM-119	
Software Engineering I	COM- 421.1	3705	6	COM-119	
Software Engineering II	COM- 430.1	3881	6	COM-119	
System programming	COM- 392	4953	6	COM-341	
Software project management (eng)	COM-341	5093	6	COM-119	
Introduction to Artificial Intelligence	COM-214	4633	6	FYS II	
Computer Networks	COM-416.1	3709	6	COM-341	
Database Design	COM-236.1	3499	6	COM-213	

Digital Integrated Circuit Design	COM-333	4143	6	COM-119	
Game Development	COM-299	3956		COM-119	
Information Security II	COM-425.1	4827		COM-424.1	
Intro to Web programming	COM-388.1	3040		COM-119	
iOS application development	COM-256	4624		COM-119	
Mobile and IoT Development	COM-250.1	3371		COM-119	
Programming Languages	COM-371.1	3327		COM-119	
System Administration	COM-463.1	3704		COM-416.1	
<b>Total</b>					<b>42 credits</b>