

College of Engineering - Required Courses for the Department of Civil Engineering (applicable to new admissions in the 2022 academic year)

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Course	Course Name and Course Code	Credits							
		Year 1		Year 2		Year 3		Year 4	
		first semester	second semester	first semester	second semester	first semester	second semester	first semester	second semester
Common Required Courses	Chinese	5							
	Foreign Languages	3	3						
	Physical Education Course	0	0	0	0	0			
	Service Education Course	0				0			
	General Education Courses (incl. Core Required and Elective Courses)	14							
Required Courses of the College	Calculus MA1003 / MA1004	3	3						
	Programming for Engineering EG1001	3							
	General Physics A PH1035	3							
Required Courses of the Department	Introduction to Civil Engineering CH1002	1							
	Surveying CI1009	3							
	Survey Practice CI1010	1							
	General Physics Laboratory PH1023	1							
	Applied Mechanics CI1005		3						
	Engineering Materials CI2005		3						
	Engineering Mathematics I / II CI2017 / CI2018			3	3				
	Mechanics of Materials CI2004			3					
	Fluid Mechanics CI2011			3					
	Structural Theory I CI2019				3				
	Civil Engineering Experiments I / II CI3036 / CI3037				2	2			
	Soil Mechanics I CI3003				3				
	Engineering Statistics EG2001				3				
	Reinforced Concrete CI3005					3			
	Foundation Engineering CI3010					3			
	Engineering Drafting and Drawing CI2007						1		
	Case Report for Civil Engineering CI4103							3	
	*Transportation Engineering CI3011					3			
	*Hydrology CI3030					3			
	*Engineering Geology CI3040					3			
	*Construction Management CI4010					3			
*Environmental Engineering CI2020					3				
Notes	1. Common Required Courses								
	1 For common course and other graduation requirements, please refer to the Notice on Required Courses List.								
	2 The foreign language course requirement of this Department can be met through any of the following study methods:								
	(1) Pass and obtain 6 credits from any other English-language course offered by the Department of English.								
	(2) Take Second Foreign Language courses offered or recognized by the Language Center, but must study and pass courses for the same foreign language to obtain 6 credits.								
	(3). "Freshman English as an Introduction to Engineering" 6 credits								
	3 Credits obtained from the "Remedial English" elective do not count towards the total course credits required for graduation for this Department.								
	4 Students are required to take at least one of the four fields from the General Education core required courses.								
	2. Required Courses of the College and Department								
	1 Total required course credits is 90 and minimum credits for graduation: 128. At least 2 courses marked with "*" must be selected and passed in order to graduate.								
2 For elective credits, at least 21 credits must be from courses offered by the Department (including course with EG course code from the College of Engineering).									
3 Students are required to take at least two design courses in order to graduate. The course codes for design courses are: CI3012, CI3028, CI3056, CI4024, C4038, CI4040, CI4041, CI4060, CI4109, CI6065, CI6069, CI6097, CI7036, CI7037, CI7089, and CI7090.									
4	Required Courses	Prerequisite Courses							
(1)	CI2004 Structural	"CI1008 Applied Mechanics" - Achieve a grade of 50 or higher							
(2)	CI2019 Structural	"CI2004 Material Mechanics" - Achieve a grade of 50 or higher							
(3)	CI2017 Engineering Mathematics I, CI2018 Engineering Mathematics II	"MA1004 Calculus" - Achieve a grade of 50 or higher							
3. Double Majors regulations: Processed in accordance with "Regulations for NCU Students Taking a Double Major."									