

Course Requirements	Course ID	Title	Semester	Units	Note
Public courses (5 Units)	F10921001	Chinese Language	1	3	
	F10921002	Chinese Culture	2	2	
Fundamental and core courses (13 Units)	F11121001	Numerical Analysis	1	3	
	F11121011	Advanced Engineering Mathematics	2	2	
	F10223002	Engineering Elasticity and Plasticity	1	3	
	F10223005	Fundamental of Material Science and Engineering	1	2	
	F10224020	Finite Element Method (I)	2	3	
Electives* (9~11 Units) "4+1"	F10225030	Advanced Soil Mechanics	2	2	Geotechnical Engineering
	F10221007	Advanced Geotechnical Engineering	2	3	
	F10226002	Analysis and Design of Foundations	1	3	
	F10226003	Lateral Support System of Deep Foundations	2	2	
	F10224005	Geotechnical Earthquake Engineering	2	3	
	F10223008	Earthquake Analysis/Design of Structures	2	3	Structural Engineering
	F10224001	Advanced Concrete Structures	2	3	
	F10223007	Structural Dynamics	1	2	
	F10224012	Advanced Structural Steel Design	1	2	
	F10224011	Steel-Concrete Composite Structures	2	2	
	F10222007	Finite Element Method(II)	2	2	
	F10224010	Prestressed Concrete Theory and Construction	2	2	
	F10200006	Selected Advanced Laboratory	2	1	
	F10225032	Advanced Bridge Structure Theory	1	3	Bridge and Tunnel Engineering
	F10225037	Long-span prestressed concrete bridge	2	2	
	F10225039	Steel Bridge Design	2	2	
	F10225034	Advanced Tunnel Structure Theory and Design	2	3	
	F10225019	Transportation Systems Planning	1	3	
	F10225043	Fundamentals of Transportation Engineering	2	2	
	F10225012	Modeling and Simulation in Transportation	2	2	

	F10225016	Pavements Engineering	1	3	
Other Requirements (3 Units)	F10200002	Thesis Proposal	3	1	
	F10200007	Practical Training**	Before Defence	1	
	F10200003	Graduate Seminar	Before Defence	1	
		1 Journal/ Conference Article or project design			

* 4~5 electives to be selected as well as 1~2 electives to be selected after consultation with your academic advisor and the Graduate Coordinator

** Graduate students are required to take the Practical Training more than 240 hours in firms or laboratory

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