## Undergraduate Program

Yearly/	Required	Course Name		
Semester	/Elective	Chinese	English	Credits
Semester	Required	微積分(一)	Calculus(I)	3
Semester	Required	微積分(二)	Calculus(II)	3
Semester	Required	工程圖學	Engineering Graphics	2
Semester	Required	計算機概論(一)	Introduction to Computer Science(I)	2
Semester	Required	工程材料學	Engineering Materials	3
Semester	Required	工程材料學實驗	Experiment of Engineering Materials	1
Semester	Required	工程力學(一)	Engineering Mechanics(I)	3
Semester	Required	工程力學(二)	Engineering Mechanics(II)	3
Semester	Required	工程數學(一)	Engineering Mathematics(I)	3
Semester	Required	工程數學(二)	Engineering Mathematics( [] )	3
Semester	Required	水文學	Hydrology	3
Semester	Required	測量學(一)	Surveying(I)	2
Semester	Required	測量學(二)	Surveying(II)	2
Semester	Required	測量學實習	Laboratory of Surveying	1
Semester	Required	工程統計學(一)	Engineering Statistics(I)	3
Semester	Required	材料力學	Mechanics of Materials	4
Semester	Required	流體力學(一)	Fluid Mechanics(I)	3
Semester	Required	流體力學實驗	Experiment of Fluid Mechanics	1
Semester	Required	結構學(一)	Structural Theory(I)	3
Semester	Required	鋼筋混凝土學	Reinforced Concrete	3
Semester	Required	土壤力學(一)	Soil Engineering(I)	3
Semester	Required	土壤力學實驗	Experiment of Soil Engineering	1
Semester	Required	結構學(二)	Structural Theory(II)	3
Semester	Required	結構學實習	Laboratory Test of Structures	1
Semester	Required	基礎工程學(一)	Foundation Engineering(I)	3
Semester	Required	工程地質學	Engineering Geology	3
Semester	Required	水利工程學(一)	Hydraulic Engineering(I)	3
Semester	Required	土木工程專題研究	Topic Study in Civil Engineering	2
Yearly	Elective	普通物理學	General Physics	6
Yearly	Elective	普通物理學實驗	General Physics Lab	2
Semester	Elective	普通化學	General Chemistry	3
Semester	Elective	土木工程概論	Introduction to Civil Engineering	2
Semester	Elective	工程圖學(二)	Engineering Graphics(II)	1
Semester	Elective	計算機概論(二)	Introduction to Computer Science(II)	2
Semester	Elective	工程契約與倫理	Construction Contracting and Ethics	2
Semester	Elective	經濟學	Economics	2
Semester	Elective	運輸工程概論	Introduction to Transportation Engineering	
Semester	Elective	施工法	Construction Method	3
Semester	Elective	電腦繪圖概論	Introduction to Computer Graphics	3
Semester	Elective	測量學總實習	Practice in Surveying	1

SemesterElective高等材料力學Advanced Mechanics of MaterialSemesterElective營建管理Construction ManagementSemesterElective鋼筋混凝土設計Design of Reinforced ConcreteSemesterElective工程數學(四)Engineering Mathematics(IV)SemesterElective隧道工程導論Introduction to Tunnel EngineeringSemesterElective航空測量學PhotogrammetrySemesterElective明渠水力學Flow in Open ChannelsSemesterElective預力混凝土學Prestressed ConcreteSemesterElective遙測學Remote SensingSemesterElective地下水工程學Groundwater Engineering	3 3 3 2 3 3 3
SemesterElective鋼筋混凝土設計Design of Reinforced ConcreteSemesterElective工程數學(四)Engineering Mathematics(IV)SemesterElective隧道工程導論Introduction to Tunnel EngineeringSemesterElective航空測量學PhotogrammetrySemesterElective明渠水力學Flow in Open ChannelsSemesterElective預力混凝土學Prestressed ConcreteSemesterElective遙測學Remote Sensing	3 3 2 3 3
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SemesterElective隧道工程導論Introduction to Tunnel EngineeringSemesterElective航空測量學PhotogrammetrySemesterElective明渠水力學Flow in Open ChannelsSemesterElective預力混凝土學Prestressed ConcreteSemesterElective遙測學Remote Sensing	3
SemesterElective明渠水力學Flow in Open ChannelsSemesterElective預力混凝土學Prestressed ConcreteSemesterElective遙測學Remote Sensing	3
SemesterElective預力混凝土學Prestressed ConcreteSemesterElective遙測學Remote Sensing	
Semester Elective 遙測學 Remote Sensing	3
Semester Elective 地下水工程學 Groundwater Engineering	3
permental Property 10 1/1/11/17	3
Semester Elective 數值方法 Numerical Analysis	3
Semester Elective 基礎工程學(二) Foundation Engineering(II)	3
Semester Elective 鋼結構設計(一) Design of Steel Structures(I)	3
Semester Elective 結構學(三) Structural Theory(III)	3
Semester Elective 結構動力學 Dynamics of Structures	3
Semester Elective 岩石力學導論 Introduction to Rock Mechanics	2
Semester Elective 地理資訊系統概論 Semester Elective 地理資訊系統概論	2
Semester Elective 水利工程學(二) Hydraulic Engineering(II) Application of Personal Computer in	2
Semester Elective PC在工程上之應用 Application of Personal Computer in	3
Semester Elective 大地測量學 Geodesy	2
Semester Elective 土壤力學(二) Soil Mechanics(II)	3
Semester Elective 應用土壤力學 Applied Soil Mechanics	3
Semester Elective 鋼結構設計(二) Design of Steel Structures(II)	3
Semester Elective	3
Semester Elective 應用水文學 Applied Hydrology	3
Semester Elective 排水工程 Drainage Engineering	3
Semester Elective 混凝土配合設計 Design of Concrete Mixing	3
Semester Elective 工程品質控制 Construction Quality Control	3
Semester Elective 工程測量 Engineering Survey	3
Semester Elective	2
Semester Elective GNSS全球導航衛星系 An Introduction of Global Navigation	3
統機論 Satellite System(GNSS)	
Semester Elective	3
Semester Elective 衛生工程學 Sanitary Engineering	3
Semester Elective 道路工程學 Highway Engineering	3
Semester Elective 土木工程實務 Civil Engineering Practice	2
Semester Elective 土木工程實務-實習 Civil Engineering Practice- intern	1
Semester Elective 綠色工程 Green engineering	2
Semester Elective 生態工程概論 Introduction to Ecological Engineering	3
Semester Elective 氣候變遷與環境衝擊	3
Semester Elective BIM在土木建築的應 Application and Practice of BIM in Civi	2
Semester Elective	3