

修課別 Required / Elective Course	學群類別 Course Category	科目代號 Subject Code	科目名稱 Subject Name	學分數 Credits	時數 Hours	開課年級學期 Open Grade Semester	開課單位 Open Course Unit	是否有 替代科 目 If Have Replace Subject	備註 Note
校必修 University Required		應修畢 18 學分 14 門科目 14 Courses (Required 18 Credit)							
	通識-基礎-語文課程 General-Basic- Language Course	DGGC0058	英文(一) Freshman English (1)	3	3	一上 First Grade Last Semester	語文中心 Language Center		
	通識-基礎-體育課程 General-Basic-Physical Education Course	DGGC0733	體育(健康體適能) Physical Education(Physical Fitness)	0	2	一上 First Grade Last Semester	通識教育中心 Center for General Education		
	通識-基礎-語文課程 General-Basic- Language Course	DGGC0803	本國語文(一) Chinese (1)	3	3	一上 First Grade Last Semester	華語文學系 Department of Chinese Language and Literature		
	通識實踐課程 General Practice Course	DGGC1708	勞作教育(一) Manual Training (1)	0	1	一上 First Grade Last Semester	學務處生活輔導組 Guidance and Counseling Section, Division of Student Affair		
	通識-基礎-校特色課 程 General-Basic-School Characteristic Course	DGGC1886	大學導航 Navigating College	1	1	一上 First Grade Last Semester	通識教育中心 Center for General Education		
	通識-基礎-校特色課 程 General-Basic-School Characteristic Course	DGGC1887	自主學習 Learning Autonomy	1	1	一上 First Grade Last Semester	通識教育中心 Center for General Education		
	通識-基礎-語文課程 General-Basic- Language Course	DGGC0304	英文(二) Freshman English (2)	3	3	一下 First Grade Next Semester	語文中心 Language Center		
	通識-基礎-體育課程 General-Basic-Physical Education Course	DGGC0732	體育(基礎游泳) Physical Education(Swimming for Beginners)	0	2	一下 First Grade Next Semester	通識教育中心 Center for General Education		

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校必修 University Required		應修畢 18 學分 14 門科目 14 Courses (Required 18 Credit)							
	通識-基礎-語文課程 General-Basic- Language Course	DGGC0804	本國語文(二) Chinese (2)	3	3	一下 First Grade Next Semester	華語文學系 Department of Chinese Language and Literature		
	通識實踐課程 General Practice Course	DGGC1709	勞作教育(二) Manual Training (2)	0	1	一下 First Grade Next Semester	學務處生活輔導組 Guidance and Counseling Section, Division of Student Affair		
	通識-基礎-體育課程 General-Basic-Physical Education Course	DGGC0168	體育(三) Physical Education (3)	0	2	二上 Second Grade Last Semester	通識教育中心 Center for General Education		
	通識-基礎-體育課程 General-Basic-Physical Education Course	DGGC0170	體育(四) Physical Education (4)	0	2	二下 Second Grade Next Semester	通識教育中心 Center for General Education		
	通識-基礎-基本素養 General-Basic- Foundation Accomplishment	DGGC0293	歷史思維 History and Thought	2	2	二下 Second Grade Next Semester	通識教育中心 Center for General Education		
	通識-基礎-基本素養 General-Basic- Foundation Accomplishment	DGGC0799	民主與法治 Democracy and Law	2	2	三上 Third Grade Last Semester	通識教育中心 Center for General Education		
院必修 College Required		應修畢 12 學分 4 門科目 4 Courses (Required 12 Credit)							
		DSS00001	微積分(一) Calculus (1)	3	3	一上 First Grade Last Semester	理工學院 College of Engineering and Science		
		DSS00003	普通物理(一) Physic (1)	3	3	一上 First Grade Last Semester	理工學院 College of Engineering and Science		

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院必修 College Required		應修畢 12 學分 4 門科目 4 Courses, Required 12 Credit							
		DSS00002	微積分(二) Calculus (2)	3	3	一下 First Grade Next Semester	理工學院 College of Engineering and Science		
		DSS00004	普通物理(二) Physic (2)	3	3	一下 First Grade Next Semester	理工學院 College of Engineering and Science		
系必修 Department Required		應修畢 61 學分 29 門科目 29 Courses (Required 61 Credit)							
		DSCV0052	測量學(一) Surveying (1)	2	2	一上 First Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0053	測量實習(一) Surveying and Practice (1)	1	3	一上 First Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0224	工程圖學 Construction Drawing	1	3	一上 First Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0152	靜力學 Statics	3	3	一下 First Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0239	工程材料 Construction Materials	2	2	一下 First Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0264	電腦輔助繪圖 Computer Aid Design and Drawing	1	3	一下 First Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0414	土木與防災工程概論 Introduction to Civil Engineering and Disaster Engineer	2	2	一下 First Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		

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系必修 Department Required		應修畢 61 學分 29 門科目 29 Courses (Required 61 Credit)							
		DSCV0009	材料試驗 Material Testing for Civil Engineering	1	3	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0072	流體力學 Fluid Mechanics	3	3	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0107	工程數學(一) Engineering Mathematics (1)	3	3	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0161	土壤力學 Soil Mechanics	3	3	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0369	材料力學(一) Mechanics of Materials (1)	3	3	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0108	工程數學(二) Engineering Mathematics (2)	3	3	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0415	營建與防災管理 Disaster Prevention and Management in Construction	3	3	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0440	流體力學試驗 Experiments in Fluid Mechanics	1	2	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0441	土壤力學實驗 Experiments of Soil Mechanics	1	2	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0016	結構學(一) Architectural Structure (1)	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		

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系必修 Department Required		應修畢 61 學分 29 門科目 29 Courses (Required 61 Credit)							
		DSCV0019	鋼筋混凝土(一) Reinforced Concrete (1)	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0133	工程經濟 Engineering Economics	2	2	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0221	基礎工程 Foundation Engineering	2	2	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0417	水利與颱風防災工程 Hydraulic Engineering and Flood Mitigation	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0500	鋼結構設計(一) Design of Steel Structure (1)	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0018	結構學(二) Architectural Structure (2)	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0040	工程估價 Engineering Cost and Estimate	2	2	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0199	實務專題(一) Special Topics (1)	1	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0420	大地災害防治 Disaster Mitigation in Geotechnical Engineering	2	2	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0442	結構力學實驗 Experiments of Architectural Structure	1	2	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		

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系必修 Department Required		應修畢 61 學分 29 門科目 29 Courses (Required 61 Credit)							
		DSCV0485	地震工程與防災概論 Introduction to Earthquake Engineering and Disaster Prevention	2	2	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0117	實務專題(二) Case Study (2)	1	3	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
院選修 College Elective		應修畢 0 學分 Elective 0 Credit							
		DSS00011	工程倫理 Engineering Ethics	2	2	二上 Second Grade Last Semester	理工學院 College of Engineering and Science		
		DSS00018	工程新科技 Emergent Technology in Engineering	2	2	二上 Second Grade Last Semester	理工學院 College of Engineering and Science		
		DSS00012	科技英文 English for Science and Technology	2	2	二下 Second Grade Next Semester	理工學院 College of Engineering and Science		
		DSS00019	工程科技與人類文明 Emergent Technology for Human Revolution	2	2	二下 Second Grade Next Semester	理工學院 College of Engineering and Science		
		DSS00024	綠色科技講座 Green Technology Seminar	3	3	三下 Third Grade Next Semester	理工學院 College of Engineering and Science		
		DSS00039	產學研習(一) Industrial Practice and Scientific Research (1)	3	12	四上 Fourth Grade Last Semester	理工學院 College of Engineering and Science		
		DSS00040	產學研習(二) Industrial Practice and Scientific Research (2)	3	12	四下 Fourth Grade Next Semester	理工學院 College of Engineering and Science		

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系選修 Department Elective		應修畢 25 學分 Elective 25 Credit							
		DSCV0139	普通物理實驗 Physics(Experiment)	1	3	一上 First Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0173	普通化學 Chemistry	2	2	一上 First Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0383	計算機概論 Introduction to Computers	3	3	一上 First Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0418	線性代數 Linear Algebra	2	2	一上 First Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0382	理則學 Logic	2	2	一下 First Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0486	計算機程式語言(一) Programming Language (1)	3	3	一下 First Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0176	工程地質 Engineering Geology	3	3	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0341	測量學(二) Surveying (2)	1	1	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0342	測量實習(二) Surveying and Practice (2)	1	3	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0347	工程日文(一) Engineering Japanese (1)	1	1	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		

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系選修 Department Elective		應修畢 25 學分 Elective 25 Credit							
		DSCV0349	工程日文聽講練習(一) Engineering Japanese Practice (1)	1	2	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0381	火災學概論 Fire Theory	2	2	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0487	計算機程式語言(二) Programming Language (2)	3	3	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0488	水文學(一) Hydrology (1)	3	3	二上 Second Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0159	動力學 Dynamics	3	3	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0250	工址調查 Site Investigation	3	3	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0348	工程日文(二) Engineering Japanese (2)	1	1	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0350	工程日文聽講練習(二) Engineering Japanese Practice (2)	1	2	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0356	水資源工程 Water Resources Engineering	3	3	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0367	工程統計(一) Engineering Statistic (1)	3	3	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		

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系選修 Department Elective		應修畢 25 學分 Elective 25 Credit							
		DSCV0370	材料力學(二) Mechanics of Materials (2)	3	3	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0377	消防法規 Fire Act and Safety Codes	2	2	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0431	工程法律實務 Engineering Legal Practice	2	2	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0489	水文學(二) Hydrology (2)	3	3	二下 Second Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0111	營建法規 Construction Laws and Regulations	2	2	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0163	土木施工法 Construction Method	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0164	工程財務管理 Engineering Financial Management	2	2	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0241	工程數學(三) Engineering Mathematics (3)	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0368	工程統計(二) Engineering Statistic (2)	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0389	中等土壤力學 Intermediate Soil Mechanics	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		

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系選修 Department Elective		應修畢 25 學分 Elective 25 Credit							
		DSCV0392	流體動力學 Fluid Dynamics	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0404	工程英文(一) Engineering English (1)	1	1	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0406	工程英文聽講練習(一) Engineering English Practice (1)	1	2	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0490	氣候變遷與調適教育 Climate Change and Adaptation Education	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0502	複合材料設計 Composite Material Design	3	3	三上 Third Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0020	鋼筋混凝土(二) Reinforced Concrete (2)	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0063	模板工程 Formwork	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0076	混凝土試驗 Concrete Test	1	1	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0077	混凝土試驗實習 Concrete Test(Practise)	1	2	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0123	大地工程 Foundation Construction	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		

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系選修 Department Elective		應修畢 25 學分 Elective 25 Credit							
		DSCV0186	計算機在工程上之應用 Application of Computer	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0242	工程數學(四) Engineering Mathematics (4)	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0258	地理資訊系統概論 Geographic Information System	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0267	水土保持工程 Soil and Water Conservation Engineering	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0373	數值分析(一) Numerical Analysis (1)	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0379	消防檢修實務 Practical of Fire Safety Equipment Inspection	2	2	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0390	土工數值分析 Numerical Analysis in Geotechnical Engineering	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0394	明渠水力學 Open Channel Hydraulics	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0407	工程英文聽講練習(二) Engineering English Practice (2)	1	2	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0408	工程英文(二) Engineering English (2)	1	1	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		

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系選修 Department Elective		應修畢 25 學分 Elective 25 Credit							
		DSCV0501	鋼結構設計(二) Design of Steel Structure (2)	3	3	三下 Third Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0069	預力混凝土 Prestressed Concrete	3	3	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0085	隧道工程 Tunnel Engineering	3	3	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0098	橋樑工程 Bridge Engineering	2	2	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0122	結構矩陣 Structure Matrix	3	3	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0131	坡地開發工程 Hill-Land Development	3	3	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0137	運輸工程 Transportation Engineering	3	3	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0255	坡地防災案例研討 Case of Slope Failure	3	3	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0366	混凝土施工 Concrete Construction	2	2	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0374	數值分析(二) Numerical Analysis (2)	3	3	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		

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系選修 Department Elective		應修畢 25 學分 Elective 25 Credit							
		DSCV0456	契約與規範 Contracts & Specifications	2	2	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0475	建築物資訊模型 Building Information Modeling	3	3	四上 Fourth Grade Last Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0116	結構系統 Structure System	3	3	四下 Fourth Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0180	地工結構物 Underground Structure	2	2	四下 Fourth Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0230	環境影響評估 Environmental Impact Assessment	2	2	四下 Fourth Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0249	生態工法 Ecological Engineering	3	3	四下 Fourth Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0384	高等代數 Advanced Algebra	3	3	四下 Fourth Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0398	海洋工程 Ocean and Marine Engineering	2	2	四下 Fourth Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0422	環境工程概論 Introduction of Environmental Engineering	3	3	四下 Fourth Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		
		DSCV0478	建築物資訊管理系統 Building Information Management System	3	3	四下 Fourth Grade Next Semester	土木與防災工程學系 Department of Civil and Disaster Prevention Engineering		

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通識-博雅分類 General-Liberal Arts Category		(*應修學分數詳通識課程說明) (*Please read the general education course description)							
	核心課程 Core Curriculum	DGGC1712	倫理、哲學與宗教 Ethics, Philosophy and Religion	2	2	二上 Second Grade Last Semester	通識教育中心 Center for General Education		
	核心課程 Core Curriculum	DGGC1713	人文、藝術與美學 Humanities, Art and Aesthetics	2	2	二下 Second Grade Next Semester	通識教育中心 Center for General Education		
	核心課程 Core Curriculum	DGGC1714	媒體與資訊 Media and Information	2	2	三上 Third Grade Last Semester	通識教育中心 Center for General Education		
	核心課程 Core Curriculum	DGGC1715	社會、法律與經濟 Society, Law and Economy	2	2	三下 Third Grade Next Semester	通識教育中心 Center for General Education		
	核心課程 Core Curriculum	DGGC1711	自然科學與應用科技 Natural Science and Applied Technology	2	2	四上 Fourth Grade Last Semester	通識教育中心 Center for General Education		
	博雅選修課程 Elective Curriculum of Liberal Arts Education	DGGC1840	博雅選修課程(一) Elective Curriculum of Liberal Arts Education (1)	2	2	四下 Fourth Grade Next Semester	通識教育中心 Center for General Education		
	博雅選修課程 Elective Curriculum of Liberal Arts Education	DGGC1841	博雅選修課程(二) Elective Curriculum of Liberal Arts Education (2)	2	2	四下 Fourth Grade Next Semester	通識教育中心 Center for General Education		
自由選修 Free Electives		至少應修畢 0 學分 Elective 0 Credit							
		DGGP0025	全民國防教育軍事訓練(一) All-out Defense Education Military Training- International Situations	2	2	一上 First Grade Last Semester	軍訓室 Military Education Office		

修課別 Required / Elective Course	學群類別 Course Category	科目代號 Subject Code	科目名稱 Subject Name	學分數 Credits	時數 Hours	開課年級學期 Open Grade Semester	開課單位 Open Course Unit	是否有 替代科 目 If Have Replace Subject	備註 Note
自由選修 Free Electives		至少應修畢 0 學分 Elective 0 Credit							
		DGGP0026	全民國防教育軍事訓練(二) All-out Defense Education Military Training-National Defense Policies	2	2	一下 First Grade Next Semester	軍訓室 Military Education Office		
		DGGP0027	全民國防教育軍事訓練(三) All-out Defense Education Military Training-Civil Defense	2	2	二上 Second Grade Last Semester	軍訓室 Military Education Office		
		DGGP0028	全民國防教育軍事訓練(四) All-out Defense Education Military Training-Defense Mobilization	2	2	二下 Second Grade Next Semester	軍訓室 Military Education Office		
		DGGP0029	全民國防教育軍事訓練(五) All-out Defense Education Military Training-Defense Technology	2	2	三上 Third Grade Last Semester	軍訓室 Military Education Office		

畢業條件 Graduation Threshold						
畢業學分數 Graduation Credits	132	學分 Credits				<p>*通識-博雅分類課程，選修 10 學分： 核心課程：分為五大領域「自然科學與應用科技」、「倫理、哲學與宗教」、「人文、藝術與美學」、「媒體與資訊」、「社會、法律與經濟」等。五大領域應選修 6 學分，每個領域最多採計一門課。</p> <p>博雅選修課程(一)、博雅選修課程(二)：其他未列入核心課程之通識選修課程，可選修 4 學分。核心課程可抵博雅選修課程。</p> <p>*General- Liberal Arts Category Course, 10 credits for elective courses: Core Curriculum: Divided into five major areas: "Natural Science and Applied Technology", "Ethics, Philosophy and Religion", "Humanities, Art and Aesthetics", "Media and Information", "Society, Law and Economy", etc. Five major fields should take 6 credits, and each field can take up to one course.</p> <p>Liberal Arts Elective Courses (1), Liberal Arts Elective Courses (2): For other general elective courses not included in the core courses, 4 credits are optional. Core Curriculum can be used for liberal arts elective courses.</p>
校必修 University Required	18	學分 Credits		14	門科目 Subjects	
院必修 College Required	12	學分 Credits		4	門科目 Subjects	
主系必修 Department Required	61	學分 Credits		29	門科目 Subjects	
校選修 University Elective	0	學分 Credits				
院選修 College Elective	0	學分 Credits				
主系選修 Department Elective	25	學分 Credits				
博雅核心課程 Core Curriculum of Liberal Arts Education	6	學分 Credits	*			
博雅選修課程 Elective Curriculum of Liberal Arts Education	4	學分 Credits	*			
跨院 Cross College	0	學分 Credits				
跨系 Cross Department	0	學分 Credits				
剩餘學分 Remaining Credits	6	學分 Credits				
自由選修 Free Electives	0	學分 Credits				

<p>※本系基本能力指標：</p> <ol style="list-style-type: none"> 1. 懂得將數學、科學及工程原理運用於土木與防災工程的能力。 2. 具備執行有關土木與防災工程之設計與實驗，以及分析與解釋數據的能力。 3. 具備執行有關土木與防災工程實務所需技術、技巧及使用工具之能力。 4. 具有土木與防災工程規劃、設計與施工管理之能力。 5. 培養學生具有溝通能力與團隊合作精神。 6. 具有發掘、分析及處理土木與防災工程問題的能力。 7. 認識時事議題，了解土木與防災工程科技對環境及社會的影響，並養成持續學習的習慣與能力。 8. 重視土木與防災工程之專業倫理並體會社會責任。 	<p>※The department basic capabilities index:</p> <ol style="list-style-type: none"> 1. The ability to apply mathematics, science and engineering principles on problems in civil and disaster prevention engineering. 2. The ability to execute design and experiments related to civil and disaster prevention projects, as well as the ability to analyze and interpret data. 3. The ability to apply technique, skills and tools required to implement relevant civil and disaster prevention engineering practices. 4. The ability to execute planning, design and construction management of civil and disaster prevention engineering. 5. To cultivate students having communication skills and teamwork ability. 6. The ability to discover, analyze and tackle with problems in civil and disaster prevention engineering. 7. To understand the impact of current issues on civil and disaster prevention engineering technology, and on the environment and society and to cultivate continuous learning. 8. To understand the professional ethics and social responsibility of civil and disaster prevention engineering.
<p>※畢業條件說明：</p> <ol style="list-style-type: none"> 1. 畢業生必須通過本校學則第68條英檢之相關資格。 2. 全民國防教育軍事訓練不納入畢業學分。 3. 畢業應修習最低學分為132學分，其中(一)數學及基礎科學至少應修34學分。(二)主系工程專業課程必修及選修至少應修64學分。(三)依學校規定校必修20學分及通識課程8學分。(四)另應再修6學分(可跨校選修部分)。 4. 須依【國立聯合大學學生學術研究倫理教育課程實施要點】規定修畢學術研究倫理教育課程。 5. 自主學習：學生於畢業前必須參與各單位辦理之演講或活動12場，並獲認證通過，始取得1學分。 	<p>※Graduation Threshold Description:</p> <ol style="list-style-type: none"> 1. Graduates must pass the relevant qualifications for the English examination in article 68 of the school's academic rules. 2. National defense education and military training are not included in graduation credits. 3. The minimum credits required for graduation are 132 credits, of which (1) Mathematics and basic sciences should take at least 34 credits. (2) At least 64 credits should be taken for the compulsory and elective courses of the major engineering major. (3) According to school regulations, the school requires 20 credits and 8 credits for general education courses. (4) In addition, 6 credits should be taken (optional part of cross-school). 4. Students must complete the academic research ethics education course in accordance with the requirements of [Implementation Points of the National United University Student Academic Research Ethics Education Course]. 5. Self-directed learning: Students must participate in 12 lectures or activities organized by each unit before graduation, and be certified to obtain 1 credit.