

National Taiwan University
College of Engineering
Courses taught in English
Fall Semester, 2025
Graduate Courses

Department	Course No.	Course Title	Instructor
Graduate Institute of Civil Engineering	521 M6640	土木工程專題討論 Civil Engineering Seminar	吳東諭/TUNG-YU WU
Civil Engineering, Geotechnical Engineering Division	521EU0600	中等土壤力學 Intermediate Soil Mechanics	卿建業/Jianye Ching
	521 U0620	土壤動力學 Soil Dynamics and Foundation Vibration	黃郁惟/Yu-Wei Hwang
	521 M1730	隧道工程 Tunnel Engineering	王泰典/TAI-TIEN WANG
	521 M5290	大地材料組成律模式 Constitutive Law of Geomaterials	葛宇甯/Louis GE
Civil Engineering, Structural Engineering Division	521M1870	高等結構學 Advanced Structural Theory	柯俊宇/Chun-Yu Ke
	521 M7260	結構耐震分析 Seismic Analysis and Design of Structures	吳東諭/TUNG-YU WU
	521 M1200	結構動力學 Structural Dynamics	張家銘/Chia-Ming Chang
	521 U0100	彈性力學一 Theory of Elasticity (I)	劉立偉/Li-Wei Liu
	521 M7300	鋼筋混凝土結構行為學 Behavior of Reinforced Concrete Structure	黃世建/HWANG,SHYH-JIANN
	521EU3160	訊號處理與頻譜分析 Signal Processing and Spectral Analysis	羅俊雄/CHIN-HSIUNG LOH
Civil Engineering, Transportation Engineering Division	521EM1550	都市運輸規劃 Urban Transportation Planning	許聿廷/YU-TING HSU
	521EU0690	作業研究 Operation Research	陳柏華/CHEN,ALBERT Y.
	521EU8770	軌道運輸學 Railroad Transportation Engineering	賴勇成/Yung-Cheng Lai
	521 M6140	鋪面設計與管理 Pavement Design and Management	周家蓓/CHIA-PEI CHOU
Civil Engineering, Computer-Aided Engineering Division	521 U9270	數據分析之計算統計學 Computational Statistics for Data Analytics	汪立本/LI-PEN WANG
	521 U9320	BIM 技術與應用(I)Technology and Application of BIM(I)	謝尚賢/SHANG-HSIEN HSIEH
	521 U9330	BIM 技術與應用(II)Technology	謝尚賢/SHANG-HSIEN

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		and Application of BIM(II)	HSIEH
Civil Engineering, Construction Engineering and Management Division	521 U7180	可靠度與風險評估 Reliability and Risk Assessment	林偲妘/Szu-Yun Lin
	521 M5790	工程專案管理 Project Management for Construction	林之謙/Jacob J. Lin
Civil Engineering, Hydraulic Engineering Division	521 U0570	明渠水力學 Open-channel Hydraulics	卡艾瑋/CAPART HERVE
Civil Engineering, Surveying Engineering Division	521 M6410	數值攝影測量 Digital Photogrammetry	趙鍵哲/Jen -Jer Jaw
	521 U3890	合成孔徑雷達導論與應用 Introduction and Applications of Synthetic Aperture Radar	蔡亞倫/Ya-Lun S. Tsai
Mechanical Engineering	ME7002	高等熱力學一	蔡協澄/Hsieh-Chen Tsai
	ME7003	黏性流體力學	楊馥菱/Fu-Ling Yang
	ME5214	系統動態學	李宇修/Yu-Hsiu Lee
	ME5071	人因工程應用實務	黃滢瑛/Rudy Ying-Yin Huang
	ME5079	發動機與先進燃料	李佳峯/Chia Fon Lee
	ME5080	積層製造	李典儒/Dian-Ru Li
	ME5085	流體介面力學導論	陳子殷/Zih-Yin Chen
Chemical Engineering	524 M1120	高等化工動力學 Advanced Chemical Engineering Kinetics	游佳欣/Jiashing Yu
	524 M1210	高等流體力學 Advanced Fluid Dynamics	林立強/Li-Chiang Lin
	524 M0030	專題討論 Seminar	廖英志、譚玉真、崔宏瑋 Ying-Chih Liao /Yu-Jane Sheng/Hung-Wei Tsui
	524U0380	應用電化學 Applied Electrochemistry	歐德理、吳恆良 /Leigh Aldous / Heng-Liang Wu
	524 U2450	薄膜分離與永續工程 Membrane Separations and Sustainable Engineering	杜育銘、吳紀聖、康敦彥、歐德理/Yu-Ming Tu /Jeffrey Chi-Sheng Wu /Dun-Yen Kang /Leigh Aldous
ESOE	ESOE5147	Principles and Applications of Ultrasound	馬克沁/Maxim SOLOVCHUK
	ESOE5094	Analysis and Design of High Power	李坤彥/Kung-Yen LEE

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		Semiconductor Devices	
Materials Science and Engineering	527 M1390	Thermodynamics of Materials	劉振良/Cheng Liang Liu
	527 M1210	Solidification Processing	蘇德徵/Te Cheng Su
	527 U0360	Materials Microstructures & Defects	Hung-Wei (Homer) Yen (顏鴻威)
Biomedical Engineering	DBME 5002	Advanced Biochemistry	林峯輝/FENG-HUEI LIN
	DBME 7005	Materials Sciences and Engineering	林峯輝/FENG-HUEI LIN
	DBME 7040	Human Anatomy and Physiology	黃韻如/RUBY YUN-JU HUANG
	DBME 7093	Human Physiology and Anatomy in Biomedical Engineering (I)	林頌然/SUNG-JAN LIN
	DBME 7106	Topics in skin development and regeneration	林頌然/SUNG-JAN LIN
	DBME 7031	Mathematics for Biomedical Engineering (1)	施博仁/PO-JEN SHIH
	DBME 5007	Introduction to Mechanobiology	趙本秀/PENHSIU CHAO
	DBME 5038	Optical Nanomaterials	林宗宏/Zong-Hong Lin
	DBME5046	Wearable Devices and Digital Health	周資傑/TZU-CHIEH CHOU
Environmental Engineering	541 M1350	Air Pollution Control	席行正/Hsing-Cheng Hsi
	541 M0780	Cleaner Production	蔣本基/ PEN CHI CHIANG
	541 M1020	Physical and Chemical Treatment Processes	林逸彬/ Yi-Pin Lin
	541 M2000	Control of Gaseous Air Pollutants	席行正/ Hsing-Cheng Hsi
	541 M0690	Water Pollution Control	于昌平/ Chang-Ping Yu
	541 M0760	Environmental System Modeling	郭大孚/ Ta Fu Dave, Kuo
	541 D0060	English Presentation for Scientists and Engineers (I)	林郁真/ ANGELA YU-CHEN LIN
	541 M1530	Water Supply Engineering Design	郭大孚/ Ta Fu Dave, Kuo
	541 M0850	Hybrid Modeling using Python	王興睿/ Hsing-Jui Wang
541 U0200	Sustainable Water Reuse and Resource Recovery Engineering	于昌平/ Chang-Ping Yu	
Applied Mechanics	AM7006 543 M1020	Applied Mathematics (I)	吳光鐘/Kuang-Chong Wu
	AM7021 543 M4010	Dynamics	覺元彙/Yuan-Hui Chueh
	AM7050 543 M5110	Elasticity (I)	劉佩玲/Pei-Ling Liu
	AM7097 543 M6110	Fundamental of Fluid Dynamics	周逸儒/Yi-Ju Chou
	AM7180 543 M4980	Introduction to Computational	陳志鴻/Chih-Hung Chen

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		Materials Mechanics	
	AM7174 543 M5370	Special Topics on Microsensors	張培仁/Pei-Zen Chang
	AM7189 543 M6480	Perturbation Methods	潘斯文/Stephen Payne
	AM5019 543 U6970	Introduction to Lab-on-a-chip	陳建甫/Chien-Fu Chen
	DMHI5004 K43 U0040	Semiconductor Material and Device Characterization	李敏鴻/Min-Hung Lee
Building & Planning	BP7111	宜居城市研究專題 Special Topic on Livable Cities	黃麗玲/LI-LING HUANG
	BP7244	生態愛：環境倫理與多物種規劃設計 Ecophilia: Environmental Ethics, Multispecies Planning and Design	郭怡君/I-Chun Kuo
Industrial Engineering	IE5009	賽局理論與應用 Game Theory with Applications	洪一薰/Hong, I-Hsuan
	IE5032	隨機過程 Introduction to Stochastic Modeling	吳政鴻/Wu, Cheng-Hun
	IE7039	最佳化概論 Introduction to Optimization	黃道宏/Kevin Huang
	IE5057	時序資料分析 Time Series Analytics	藍俊宏/Lan, Chung-Hung
	IE5059	工程統計學 Engineering Statistics	洪英超/Hung, Ying-Chao
TIGP- Molecular Science and Technology	551 D0050	Special Studies on Topics about Molecular Science and Technology 分子科學與技術專題研究	陳俊維/ CHUN WEI CHEN
	551 D0060	Irreversible Thermodynamics and Its Application in Spin Caloritronics 不可逆熱力學及其應用	謝雅萍 /Ya-Ping Hsieh
	551 D0070	Colloquium 專題討論	陳俊維/ CHUN WEI CHEN
	551 D0080	Seminar 書報討論	余慈顏 /Tsy-Yan Yu
	551 D0170	Mass spectrometer and carbohydrate mass spectrometry 質譜儀與醣質譜	余慈顏 /Tsy-Yan Yu
Taiwan International Graduate Program for Sustainable Chemical Science and Technology	Phys8098	Introduction to Nanotechnology	李尚凡 Lee, Shang-Fan
	Chem8037	Discussion in Advanced Chemical Biology (I)	朱忠瀚 Chung-Han Chu
	Chem8043	Advanced Inorganic Chemistry (I)(tigr)	江建文 KONG, Kien Voon
	SCST8001	Thesis (Ph.D)	

Department	Course No.	Course Title	Instructor
	SCST8002	Seminar	江明錫 Ming-Hsi Chiang
	SCST8003	Colloquium	章為皓 Wei-Hau Chang
	SCST8004	Lab Rotation	黃人則 Jen-Tse Huang
	SCST8007	Introduction to Sustainable Chemical Science & Technology I	洪政雄 Chen-Hsiung Hung
	SCST8011	Special Topics in Sustainable Nanochemistry	黃人則 Jen-Tse Huang
	Phys8156	Advanced Metrology, Spectroscopy and Microscopy: Fundamentals and Applications	林麗瓊 Chen, Li-Chyong
	MST8018	Mass spectrometer and carbohydrate mass spectrometry	余慈顏 Tsyr-Yan Yu
	BChem5034	Computer Modeling for Drug Design	林俊宏 Chun-hung lin
	BChem5061	Characterization and Data Reporting of Organic Compounds	呂桐睿 Todd L. Lowary
	BChem5062	Carbohydrate Chemistry	呂桐睿 Todd L. Lowary