



2019 Fall Semester

College of Engineering			
Department of Civil Engineering			
Course #	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
CI5010	Practical Programing for Image Analysis	3	G
CI5012	Satellite Geodesy and Navigation	3	G
CI5016	Centrifuge modeling technique and data analysis	3	G
CI5018	Internet of Things and Smart Structural Health Monitoring	3	G
CI6018	Structural Dynamics	3	G
CI6065	Asphalt Concrete Mix Design	3	G
CI7025	Continuum Mechanics	3	G
CI7027	Physical & Chemical Properties of Cement	3	G
CI7065	Geographical Information Systems	3	G
CI7076	Digital Photogrammetry	3	G
CI7105	Earthquake Disaster Reduction	2	G
CI7113	Soft Ground Engineering	3	G
CI8016	Geotechnical Seminar	1	G
CI8029	Geoinformatics Seminar II	1	G
CI8031	Geoinformatics Seminar	1	G
CI8032	Geoinformatics Seminar	1	G
CI7022	Transportation Planning & Networks	3	G
CI7107	Research Methods	3	G
CI8035	Building Information Modeling: Theory and Applications	3	G
CI7003	Environmental Fluid Mechanics	3	G
CI5024	Principles of Risk Analysis	3	G
CI5025	Structural Control	3	G
CI7121	Special Topics in Geoinformatic Sciences I	4	G
CI6095	Plastic Analysis and Design for Steel	3	G



College of Engineering			
Course #	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
EG5009	English Seminar I	0	G
Department of Chemical & Materials Engineering			
Course #	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
CH6007	Advanced Transport Phenomena	3	G
CH7007	Materials Physics	3	G
CH8081	Bio macromolecules	3	G
CH8097	Bio-inspired Materials	3	G
Department of Mechanical Engineering			
Course #	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
ME3001	Computer-aided Graphics	3	U
ME5027	Advanced Applied Mathematics	3	G
ME5053	Two-phase Heat Transfer	3	G
ME5096	Statistics	3	G
ME6059	Mechanical Behavior of Materials	3	G
ME7100	Methodology and Practice of Intergrated Mechanisms Design	3	G
ME6100	English Seminar	0	G
ME5204	Manufacturing Network Technologies	3	G
Institute of Materials Science & Engineering			
Course #	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
MS5045	Electrochemistry of Materials	3	G
MS5055	Sustainable Nano chemistry	3	G
MS5037	Materials Physics of Solid	3	G
Institute of Energy Engineering			
Course #	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
ER6003	Heat Exchangers	3	G
ER6006	An Introduction to Energy Technology	3	G
ER6007	Introduction to energy economics and policies : energy,	3	G



	environmental protection and economic growth in Taiwan		
International Master Program for Environment Sustainable Development (IESD)			
Course #	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
SD6001	Introduction to energy economics and policies : energy, environmental protection and economic growth in Taiwan	3	G
SD6003	Environmental Engineering Economics	3	G
SD6005	Geographic Information Systems	3	G
SD6022	Special Topics	1	G
SD6024	Applied Statistics	3	G
SD6029	Satellite Geodesy and Navigation	3	G
SD6031	Digital Photogrammetry	3	G
SDA001	Introduction to energy economics and policies : energy, environmental protection and economic growth in Taiwan	3	G
SDA003	Environmental Engineering Economics	3	G
SDA005	Geographic Information Systems	3	G
SDA011	Research Study I	3	G
SDA014	Introduction to Energy Technology	3	G
SDA023	Special Topics	1	G
SDA024	Applied Statistics	3	G
SDA029	Satellite Geodesy and Navigation	3	G
SDA031	Digital Photogrammetry	3	G
Graduate Institute of Construction Engineering & Management			
Course #	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
CN6105	Construction Information and Knowledge Management	3	G
Graduate Institute of Environmental Engineering			
Course #	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
EN6041	Chemical Processes of	3	G



	Environmental Engineering		
EN6047	Physical Processes of Environmental Engineering	3	G
EN6310	Waste Treatment and Recycling Engineering	3	G
EN6316	Applied Environmental Microbiology	3	G
International Master Degree Program in Applied Materials Science (IAMS)			
Course #	Course Name	Credit	Undergraduate Course(U) or Graduate Course(G)
AM5001	Seminar	1	G
AM5003	Seminar	1	G
AM5005	Master Thesis	0	G
AM5007	Master Thesis	0	G
AM9998	Research Training	0	G

Update: JUL, 2019