



2020 Fall Semester

| College of Engineering          |   |        |  |
|---------------------------------|---|--------|--|
| Department of Civil Engineering |   |        |  |
| Course #                        | Course Name   | Credit | Undergraduate Course(U)<br>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  |
| CI5024*                         | Principles of Risk Analysis                               | 3      | G  |
| CI5025*                         | Structural Control  | 3      | G  |
| CI6018*                         | Structural Dynamics                                       | 3      | G  |
| CI6026*                         | Experimental Soil Mechanics                               | 3      | G  |
| CI6046*                         | Plasticity  | 3      | G  |
| CI6057*                         | Soil Dynamics   | 3      | G  |
| CI6065*                         | Asphalt Concrete Mix Design                               | 3      | G  |
| CI7006*                         | Computational Hydraulic                                   | 3      | G  |
| CI7022*                         | Transportation Planning & Networks                        | 3      | G  |
| CI7025*                         | Continuum Mechanics                                       | 3      | G  |
| CI7065*                         | Geographical Information Systems                          | 3      | G  |
| CI7076*                         | Digital Photogrammetry                                    | 3      | G  |
| CI7105*                         | Earthquake Disaster Reduction                             | 2      | G  |
| CI7107*                         | Research Methods  | 3      | G  |
| CI7121*                         | Special Topics in Geoinformatic Sciences I                | 4      | G  |
| CI8016*                         | Geotechnical Seminar                                      | 1      | G  |
| CI8029*                         | Geoinformatics Seminar II                                 | 1      | G  |
| CI8031*                         | Geoinformatics Seminar                                    | 1      | G  |
| CI8032*                         | Geoinformatics Seminar                                    | 1      | G  |
| CI8035*                         | Building Information Modeling:<br>Theory and Applications | 3      | G  |



| Department of Mechanical Engineering             |   |        |  |
|--|---|--------|--|
| Course #   | Course Name   | Credit | Undergraduate Course(U)<br>or Graduate Course(G) |
| ME3001*  | Computer-aided Graphics   | 3      | U  |
| ME5096*  | Statistics  | 3      | G  |
| ME6000*  | Numerical Analysis  | 3      | G  |
| ME6100*  | English Seminar   | 0      | G  |
| ME7056*  | Linear Systems  | 3      | G  |
| ME7100*  | Methodology and Practice of<br>Intergrated Mechanisms Design  | 3      | G  |
| Department of Chemical and Materials Engineering |   |        |  |
| Course #   | Course Name   | Credit | Undergraduate Course(U)<br>or Graduate Course(G) |
| CH7007*  | Materials Physics   | 3      | G  |
| CH8031*  | Advanced Polymer Physics  | 3      | G  |
| CH8081*  | Biomacromolecules   | 3      | G  |
| CH8097*  | Bio-inspired Materials  | 3      | G  |
| Graduate Institute of Environmental Engineering  |   |        |  |
| Course #   | Course Name   | Credit | Undergraduate Course(U)<br>or Graduate Course(G) |
| EN6041*  | Chemical Processes of<br>Environmental Engineering  | 3      | G  |
| EN6047*  | Physical Processes of<br>Environmental Engineering  | 3      | G  |
| EN6070*  | Special Topics in Water Treatment   | 3      | G  |
| EN6309*  | Environmental Ecology   | 3      | G  |
| EN6316*  | Applied Environmental<br>Microbiology   | 3      | G  |
| Graduate Institute of Energy Engineering         |   |        |  |
| Course #   | Course Name   | Credit | Undergraduate Course(U)<br>or Graduate Course(G) |
| ER5042*  | Lighting System   | 3      | G  |
| ER6007*  | Introduction to energy economics<br>and policies : energy,<br>environmental protection and<br>economic growth in Taiwan | 3      | G  |
| ER6017*  | Hydrogen Energy and Fuel Cells  | 3      | G  |



| Graduate Institute of Materials Science and Engineering                 |   |        |  |
|---|---|--------|--|
| Course #  | Course Name   | Credit | Undergraduate Course(U)<br>or Graduate Course(G) |
| MS5037*   | Materials Physics of Solid  | 3      | G  |
| MS5045*   | Electrochemistry of Materials   | 3      | G  |
| MS5055*   | Sustainable Nanochemistry   | 3      | G  |
| International Master's Program in Environmental Sustainable Development |   |        |  |
| Course #  | Course Name   | Credit | Undergraduate Course(U)<br>or Graduate Course(G) |
| SD6001*   | Introduction to energy economics<br>and policies : energy,<br>environmental protection and<br>economic growth in Taiwan | 3      | G  |
| SD6003*   | Environmental Engineering<br>Economics  | 3      | G  |
| SD6011*   | Research Study I  | 3      | G  |
| SD6014*   | Introduction to Energy Technology   | 3      | G  |
| SD6022*   | Special Topics  | 1      | G  |
| SD6023*   | Special Topics  | 1      | G  |
| SD6024*   | Applied Statistics  | 3      | G  |
| SD6031*   | Digital Photogrammetry  | 3      | G  |
| SD6033*   | Technical Writing   | 1      | G  |
| SD6036*   | Earthquake Disaster Reduction   | 2      | G  |
| SD6037*   | Internet of Things and Smart<br>Structural Health Monitoring  | 3      | G  |
| SD6038*   | Asphalt Concrete Mix Design   | 3      | G  |

Update: OCT, 2020