4.2.4.2 Degree Requirements

The graduation requirements include obtaining a minimum Cumulative Average Point (CAP) of 3.00 (equivalent to an average of Grade B-) for the best 40 Modular Credits (MCs), inclusive of core modules. Of the 40 MCs, all must be at graduate level and at least 30 MCs must be within the subject or in a related discipline, the remaining credits may be from other disciplines as approved by the Department of Civil & Environmental Engineering. Students are not allowed to take a module which they have previously taken and counted towards a different degree programme without prior permission from the Head of Department.

Core Modules

ESE5001   Environmental Engineering Principles

At least 7 Elective Modules

ESE5002   Physical and Process Principles
ESE5003   Environmental Chemical Principles
ESE5201   Combustion Pollution Control
ESE5202   Air Pollution Control Technology
ESE5203   Aerosol Science and Technology
ESE5204   Toxic & Hazardous Waste Management
ESE5205   Sludge and Solid Waste Management
ESE5301   Environmental Biological Principles
ESE5401   Water Quality Management
ESE5402   Industrial Wastewater Control
ESE5403   Water Reclamation & Reuse
ESE5404   Biological Treatment Processes
ESE5405   Water Treatment Processes
ESE5406   Membrane Treatment Processes and Modelling
ESE5407   Membrane Technology for Water Management
ESE5601   Environmental Risk Assessment
ESE5602   Environmental Management Systems
ESE5607   Green Catalysis
ESE5608   Heavy Metals in the Environment
ESE5901   Environmental Technology
ESE6001   Environmental Fate of Organic Contaminants
ESE6301   Topics in Environmental Biotechnology
ESE6401   Advanced Biological Treatment Processes

ESE6403   Topics in Membrane Purification
Note that all required modules can be from Environmental Engineering Programme but a maximum of two modules of the ten required modules may be from other Department/Faculties, including the following modules (subject to approval of Department of Civil and Environmental Engineering):

DE5107   Environmental Planning
GE6211   Spatial Data Processing
LX5103   Environmental Law
PP5227   Environmental Policy and Nature Resource Management
SH5101   Industrial Toxicology
SH5104   Occupational Health

Note: Not all modules listed are necessarily available in any one year. All modules listed are of 4 MCs each.

For more details on the modules offered, please refer to the website at
www.eng.nus.edu.sg/cee/programmes/TimeTable.html