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| ***Code*** | ***Title*** | ***Credits*** | ***Option*** |
| First Semester | | | |
| AE 5103 | Hydrology and Meteorology | 3 | Compulsory |
| AE 5105 | Water and Society | 2 | Compulsory |
| AE 5107 | Water Quality for Agriculture and Environment | 2 | Compulsory |
| EC 5108 | Water Resources Economics I | 2 | Compulsory |
| AE 5101 | Water for Agriculture | 2 | Elective |
| AE 5109 | Soil Mechanics | 2 | Elective |
| AE 5119 | Water and Industry | 2 | Elective |
| EC 5107 | Project Analysis | 2 | Elective |
| ST 5106 | Computer Programming | 2 | Elective |
| Second Semester | | | |
| AE 5210 | Health, Sanitation and Wastewater Management | 2 | Compulsory |
| AE 5202 | Water Application Systems | 2 | Elective |
| AE 5206 | Fluid Mechanics | 2 | Elective |
| AE 5209 | GIS for Natural Resources Management | 2 | Elective |
| AE 5211 | Hydraulics of Erosion and Sediment Transport | 2 | Elective |
| AE 5212 | Water Supply | 2 | Elective |
| AE 6104 | Interdisciplinary Field Research Methodology | 3 | Elective |
| AE 6105 | Gender in IWRM | 2 | Elective |
| EC 5208 | Water Resource Economics II | 2 | Elective |
| Second Year First Semester | | | |
| AE 5151 | River Basing Planning & Management | 2 | Compulsory |
| AE 5152 | Environmental Impact Assessment | 2 | Compulsory |
| AE 5198 | Directed study and Seminar | 2 | Compulsory |
| AE 6101 | Advanced Irrigation Water Management | 2 | Compulsory |
| AE 5108 | Groundwater Development | 2 | Elective |
| AE 5154 | Application of Remote Sensing in Agriculture | 2 | Elective |
| AE 5155 | Financing Water Development | 2 | Elective |
| AE 6102 | Advanced GIS and Geo-informatics | 2 | Elective |
| AE 6103 | Modeling Hydrological Systems | 1 | Elective |