

College	College of Engineering	Department	Civil and Construction Engineering
Program	Water Engineering	Degree Level	Bachelor of Science
Total Credit Hours	123 CH	Applicable for batch of	2022 and above

Year One		Year Two		Year Three		Year Four	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
ENGR111 Computer Applications	ENGR110 Engineering Laboratories	CVEN332 Civil Engineering Materials Pre-ENGR110	CVEN231 Engineering Geology Pre-CHEM111	ENGR331 Applied Engineering Mathematics Pre-R: MATH102	ENEN201 Renewable Energy Pre- MATH102	CVEN552 Engineering Hydrology Pre-CVEN451	CVEN554 Hydrogeology & Groundwater Contamination Pre-CVEN451
ISLM101 Islamic Civilization	WATE121 Water Chemistry Pre-CHEM111	CVEN310 Surveying Pre- MATH101	ENGR201 Engineering Drawing	WATE311 Water Supply Technology Pre-WATE222	WATE321 Irrigation & Drainage Technology Pre-WATE311	WATE411 Capstone Design Project I**	Water Engineering Technology Elective
CHEM111 Applied Chemistry	MATH102 Calculus II Pre- MATH101	WATE211 Introduction to Water Quality Pre-WATE121	WATE221 Water Treatment II Pre-WATE213	WATE312 Computer Application in Water Resources Pre-ENGR111	ENEN461 Solid Waste Management Pre-CVEN310	Water Engineering Technology Elective	Water Engineering Technology Elective
ENGL101 English Communication Skills I	PHYS111 Applied Physics	WATE212 Water Microbiology Pre-WATE121	MATH204 Probability and Statistics Pre- MATH102	CVEN451 Hydraulics Engineering Pre-CVEN332	WATE322 Wastewater Treatment Pre-WATE221	CVEN553 Water Resources Engineering Pre-CVEN451	WATE423 Capstone Design Project II Pre-WATE411
MATH101 Calculus I	ENGL102 English Communication Skills II Pre-ENGL101	WATE213 Water Treatment I Pre-CHEM111	WATE222 Fluid Mechanics Pre- MATH102	MNGT313 Entrepreneurship*	WATE323 Pump Station Design Pre-WATE311	ENEN582 Desalination Engineering Pre-CVEN332	WATE413 Water Laws & Legislation Pre- MNGT313
					ENGR322 Summer Internship	WATE414 Hydraulic Structures Pre-CVEN451	
15 CH	15 CH	15 CH	15 CH	15 CH	15 CH	18 CH	15 CH

List of Elective Courses:

A student must register for **3** courses with total of **9** credits hours following the program study plan.

Course Code	Course Title	Pre-Requisite	Credits hours
ENEN531	Advanced Wastewater Treatment	WATE323	3
CVEN564	Coastal Engineering		3
WATE422	Groundwater Remediation	CVEN554	3
WATE423	Advanced Technology in Desalination		3
WATE424	Arid Zone Hydrology	CVEN554& CVEN552	3
WATE425	Nanotechnology in Water Applications		3
WATE426	Water-Borne Diseases		3
WATE427	Special Topics in Water Engineering		3
WATE428	Water Pollution Control		3
WATE429	Design & Management of Irrigation Systems	WATE322	3
OJTR406	Industrial Internship I	90 Credit hours	0
OJTR407	Industrial Internship II	OJTR406	0