

**School of Natural Resources and Management
(SNREM)**

Civil and Environmental Engineering Department

Guidance Study Plan

(Civil Engineering Track and Environmental Engineering Track)

First Year				
First Semester (Civil and Environmental tracks)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
ENGL098	English I*	0		
GERL101	German I	3		
CHEM103	General Chemistry I	3		
CHEM106	General Chemistry lab	1		CHEM103
MATH101	Calculus I	3		
NE101	National Education	3	ARB099	
CS116	Computing fundamentals	3		
CS1160	Computing Fundamentals Lab	1		CS116
PHYS103	Physics I	3		
Total Hours		20		

First Year				
Second Semester (Civil and Environmental tracks)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
ENGL099	English II*	0		
GERL102	German II	3	GERL101	
MATH102	Calculus II	3	MATH101	
PHYS104	Physics II	3	PHYS103	
PHYS106	General Physics Lab	1		PHYS104
ME111	Computer Aided Eng. Drawing	3	CS1160	ME1110
ME1110	Computer Aided Eng. Drawing Lab.	0		ME111
ARB100	Arabic	3	ARB099	
CEE101	General Chemistry II	3	CHEM103	
Total Hours		19		

Second Year				
First Semester (Civil and Environmental tracks)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
----	University Elective	3		
ENGL101	English III*	1	ENGL099	
GERL201	German III	3	GERL102	
MATH203	Applied Mathematics for Engineers	3	MATH102	
IE121	Workshop	1		
IE211	Probability and Statistics for Eng.	3	MATH102	
CEE202	Engineering geology	2		
CEE203	Engineering Geology lab	1		CEE202
CEE201	Statics	3	MATH101 & PHYS103	
Total Hours		20		

Second Year				
Second Semester (Civil and Environmental tracks)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
ENGL102	English IV*	1	ENGL101	
GERL202	German IV	3	GERL201	
MATH205	Differential equations	3	MATH102	
TME213	Mechanics of Materials	3	CEE201	
TME222	Fluid Mechanics	3	CEE201 & MATH102	
CEE331	Surveying	2	IE211	
CEE332	Surveying lab	1		CEE331
CEE211	Hydrology	3	IE211	
Total Hours		19		

Third Year				
First Semester (Civil and Environmental tracks)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
ENGL201	English V*	2	ENGL102	
GERL301	German V	3	GERL202	
CEE311	Hydraulics	3	TME222	
CEE312	Hydraulics Lab	1		CEE311
CEE321	Structural analysis (1)	3	TME213	
CEE341	Geotechnical engineering	3	CEE202 & TME213	
CEE342	Geotechnical engineering lab	1		CEE341
CEE333	Highway and traffic engineering	3	CEE331	
CEE351	Building materials	2		
Total Hours		21		

Third Year				
Second Semester (Civil engineering track)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
ENGL202	English VI*	2	ENGL201	
GERL302	German VI	3	GERL301	
TME214	Dynamics and Vibration	3	CEE201	
ENE437	Energy Engineering Economics	3	MATH203	
CEE323	Reinforced concrete (1)	3	CEE321 & CEE351	
CEE322	Structural analysis (2)	3	CEE321	
CEE352	Building materials lab	1	CEE351	
CEE390	Field Training in Jordan	0		
Total Hours		18		

Fourth Year				
First Semester (Civil engineering track)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
	Department Elective	3		
	Department Elective	3		
	Department Elective	3		
	Department Elective	3		
Total Hours		12		

Fourth Year				
Second Semester (Civil engineering track)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
CEE372	International Internship	12		
Total Hours		12		

Third Year				
Second Semester (Environmental engineering track)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
ENGL202	English VI*	2	ENGL201	
GERL302	German VI	3	GERL301	
TME214	Dynamics and Vibration	3	CEE201	
ENE437	Energy Engineering Economics	3	MATH203	
CEE323	Reinforced concrete (1)	3	CEE321 & CEE351	
CEE313	Water Chemistry	2	CEE101	
CEE314	Water Chemistry lab	1		CEE313
CEE315	Environmental Impact Assessment	2		
CEE390	Field Training in Jordan	0		
Total Hours		19		

Fourth Year				
First Semester (Environmental engineering track)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
	Department Elective	3		
	Department Elective	3		
	Department Elective	3		
	Department Elective	3		
Total Hours		12		

Fourth Year				
Second Semester (Environmental engineering track)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
CEE372	International Internship	12		
Total Hours		12		

Fifth Year				
First Semester (Civil engineering track)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
CEE522	Steel structures	3	CEE321	
CEE541	Foundation engineering	3	CEE341 & CEE323	
CEE561	Contracts, Specifications and Quantity Surveying	3	CEE331 & CEE323	
CEE511	Environmental engineering	3	CEE311	
CEE531	Transportation engineering	3	CEE333	
CEE521	Reinforced concrete (2)	3	CEE323 & CEE322	
CEE591	Graduation project (1)	1	Passing 120CHs	
Total Hours		19		

Fifth Year				
Second Semester (Civil engineering track)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
CEE532	Pavement design	3	CEE333	
CEE562	Engineering Projects & Construction Management	3	CEE333 & CEE323	
CEE515	Water and wastewater Treatment Engineering	3	CEE311	
CEE516	Water and Waste water Treatment Engineering Lab	1		CEE515
CEE533	Highway Lab	1		CEE532
MILS100	Military Sciences	3		
----	University Elective	3		
CEE592	Graduation project (2)	3	CEE591	
Total Hours		20		

Total Credit Hours	180
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Fifth Year				
First Semester (Environmental engineering track)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
CEE522	Steel structures	3	CEE321	
CEE541	Foundation engineering	3	CEE341 & CEE323	
CEE561	Contracts, Specifications and Quantity Surveying	3	CEE331 & CEE323	
CEE512	Air Pollution Control	2	CEE315	
CEE513	Air Pollution Control lab	1		CEE512
CEE514	Water resources engineering	3	CEE211 & CEE311	
CEE591	Graduation project (1)	1	Passing 120CHs	
----	University Elective	3		
Total Hours		19		

Fifth Year				
Second Semester (Environmental engineering track)				
Course No.	Course Title	Credit Hours	Prerequisite	Co-requisite
CEE532	Pavement design	3	CEE333	
CEE562	Engineering Projects & Construction Management	3	CEE333 & CEE323	
CEE515	Water and wastewater Treatment Engineering	3	CEE311	
CEE516	Water and Waste water Treatment Engineering Lab	1		CEE515
CEE517	Solid Waste Management	3	CEE341	
MILS100	Military Sciences	3		
CEE592	Graduation project (2)	3	CEE591	
Total Hours		19		

Total Credit Hours	180
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