



College: **ENGINEERING**
Department: **CIVIL AND ARCHITECTURAL ENGINEERING**
Cohort: **2004**
Degree: **B. ENG.**
Major: **CONSTRUCTION ENGINEERING**

<u>Summary of Credits:</u>	
University Requirements (UR)	18
Arabic	3
English	6
Contemporary Omani Society	1
Oman & Islamic Civilization or Islamic Culture	2
Free Elective	6
College Requirements (CR)	35
Math	17
Physics	8
Computer Programming	3
Chemistry	3
Introduction to Engineering	2
Workshop	1
Elective	1
Industrial Training	0
Department Requirements (DR)	87
Department Core	65
Track	13
Electives	9
TOTAL	140

For reference contact: Dr. Mohamed Abdel-Halim (HoD) Ext. 1332

HoD

Date

Dean's Office

Date

Registrar's Office

Date

Department of Civil and Architectural Engineering
Construction Engineering Degree Plan: 2004 Cohort (Scheme I)

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Semester 1 Fall 2004		University English	0					UR
	Total		0					

Semester 2 Spring 2005	ARAB1001	Arabic	3	3				UR
	HIST1010	Oman & Islamic Civilization or						
	ISLM1010	Islamic Culture	2	2				UR
	LANC2160	English for Engineering I	3	3				UR
	ENGR1500	Introduction to Engineering	2	1		2		CR
	ENGR1600	Workshop I	1		2			CR
	MATH1106	Pre-Calculus Mathematics	4	3			2	CR
Total		15						

Semester 3 Fall 2005	LANC2161	English for Engineering II	3	3			LANC2160	UR
	SOCI3320	Contemporary Omani Society	1	1				UR
	CHEM1071	General Chemistry for Engineers	3	3				CR
	MATH2107	Calculus I	4	3		2	MATH1106	CR
	PHYS2107	General Physics I	4	3	3		MATH2107*	CR
	Total		15					

Semester 4 Spring 2006		College Elective ^a	1		2			CR
	COMP2216	Programming in Fortran	3	2	2			CR
	MATH2108	Calculus II	3	2		2	MATH 2107	CR
	PHYS2108	General Physics II	4	3	3		PHYS 2107	CR
	CIVL3216	Basic Mechanics	4	3		2	PHYS2107	DR
	Total		15					

Semester 5 Fall 2006	MATH3171	Linear Algebra & Multivariate	3	2		2	MATH2108	CR
	CIVL3002	Drawing I	2		2			DR
	CIVL3056	Surveying	3	2	2		MATH2107	DR
	CIVL3086	Mechanics of Materials	3	2		2	CIVL3216	DR
	CIVL3096	Construction Materials	3	2	2			DR
	PETM3006	Engineering Geology	3	2	2			DR
	Total		17					

January 2007	ENGR3006	Industrial Training I	0				CIVL3056	CR
	Total		0					

Semester 6 Spring 2007		University Elective I	3					UR
	MATH4174	Differential Equations for Engineers	3	2		2	MATH2108	CR
	CIVL3036	Structures I	3	2	2		CIVL3086	DR
	CIVL3046	Drawing II	2		2		CIVL3002	DR
	CIVL3106	Geotechnical Engineering I	3	2	2		PETM3006*	DR
	CIVL4046	Fluid Mechanics	3	2	2		CIVL3216	DR
	Total		17					

^a ENGR1601 WORKSHOP II

Department of Civil and Architectural Engineering
Construction Engineering Degree Plan: 2004 Cohort (Scheme I)

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Semester 7 Fall 2007	CIVL4036	Highway Engineering	3	2	2		CIVL3106	DR
	CIVL4136	Environmental Engineering I	3	2	2		CIVL4046, CHEM1071	DR
	CIVL4206	Concrete Design	3	2	2		CIVL3036,3046,3096	DR
	CIVL5146	Numerical Methods	3	2	2		COMP2216	DR
	CIVL5204	Engineering Economics	3	2		2		DR
	Total			15				
Semester 8 Spring 2008		Department Elective ^a	3					DR
	CIVL3066	Engineering Hydrology	3	2		2	MATH 3171, CIVL4046	DR
	CIVL4016	Structures II	3	2		2	CIVL 3036, MATH 4174	DR
	CIVL5336	Construction Management	3	3			CIVL5204	DR
	CIVL5401	Estimating and Cost Control	3	2		2	CIVL5336*	DR
	Total			15				
Summer 2008	ENGR4006	Industrial Training II	0					CR
	Total			0				
Semester 9 Fall 2008		Department Elective ^a	3					DR
	CIVL4146	Hydraulics	3	2		2	CIVL4046	DR
	CIVL4216	Steelwork Design	3	2	2		CIVL3036, 3046	DR
	CIVL4226	Foundation Engineering	3	2		2	CIVL3106, 4206	DR
	CIVL5402	Construction in Practice	3	2		2	CIVL5336	DR
	CIVL5998	Project I ^b	2				CIVL4136, 4206	DR
	Total			17				
Semester 10 Spring 2009		University Elective II	3					UR
		Department Elective ^a	3					DR
	CIVL4006	Prob. & Statistics for Engineers	3	2		2		DR
	CIVL5316	Civil Engineering Design Project	3				CIVL5401, 5402	DR
	CIVL5999	Project II ^b	2				CIVL5998	DR
	Total			14				

^a Department Electives – a student must choose three courses from elective courses offered in semester 8, 9 and 10.

^b Projects I and II: The student must work the project in the Construction Engineering subject

Department of Civil and Architectural Engineering
Construction Engineering Degree Plan: 2004 Cohort (Scheme II)

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Semester 1 Fall 2004		University English	0					UR
	Total		0					
	Semester 2 Spring 2005		University English	0				
Total		0						
Semester 3 Fall 2005			University Elective	3				
	LANC2160	English for Engineering I	3	3				UR
	CHEM1071	General Chemistry for Engineers	3	3				CR
	ENGR1500	Introduction to Engineering	2	1		2		CR
	ENGR1600	Workshop I	1		2			CR
	MATH1106	Pre-Calculus Mathematics	4	3		2		CR
	Total		16					
Semester 4 Spring 2006	ARAB1001	Arabic	3	3				UR
	HIST1010	Oman & Islamic Civilization or						
	ISLM1010	Islamic Culture	2	2				UR
	LANC2161	English for Engineering II	3	3			LANC 2160	UR
	SOCI3320	Contemporary Omani Society	1	1				UR
	MATH2107	Calculus I	4	3		2	MATH1106	CR
	PHYS2107	General Physics I	4	3	3		MATH2107*	CR
	Total		17					
Summer 2006	MATH2108	Calculus II	3				MATH2107	CR
	CIVL3216	Basic Mechanics	4	3		2	PHYS2107	DR
	Total		7					
Semester 5 Fall 2006		College Elective ^a	1		2			CR
	MATH3171	Linear Algebra & Multivariate	3	2		2	MATH2108	CR
	PHYS2108	General Physics II	4	3	3		PHYS 2107	CR
	CIVL3002	Drawing I	2		2			DR
	CIVL3056	Surveying	3	2	2		MATH2107	DR
	CIVL3086	Mechanics of Materials	3	2		2	CIVL3216	DR
	Total		16					
January 2007	ENGR3006	Industrial Training I	0				CIVL3056	CR
	Total		0					

^a ENGR1601 WORKSHOP II

Department of Civil and Architectural Engineering
Construction Engineering Degree Plan: 2004 Cohort (Scheme II)

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Semester 6 Spring 2007	COMP2216	Programming in Fortran	3	2	2			CR
	MATH4174	Differential Equations for	3	2		2	MATH2108	CR
	CIVL3036	Structures I	3	2	2		CIVL3086	DR
	CIVL3046	Drawing II	2		2		CIVL3002	DR
	CIVL3096	Construction Materials	3	2	2			DR
	PETM3006	Engineering Geology	3	2	2			DR
Total			17					

Summer 2007	CIVL3106	Geotechnical Engineering I	3	2	2		PETM3006*	DR
	CIVL4046	Fluid Mechanics	3	2	2		CIVL3216	DR
Total			6					

Semester 7 Fall 2007	CIVL4036	Highway Engineering	3	2	2		CIVL3106	DR
	CIVL4136	Environmental Engineering I	3	2	2		CIVL4046, CHEM1071	DR
	CIVL4206	Concrete Design	3	2	2		CIVL3036,3046,3096	DR
	CIVL5146	Numerical Methods	3	2	2		COMP2216	DR
	CIVL5204	Engineering Economics	3	2		2		DR
Total			15					

Semester 8 Spring 2008		Department Elective ^a	3					DR
	CIVL3066	Engineering Hydrology	3	2		2	MATH 3171, CIVL4046	DR
	CIVL4016	Structures II	3	2		2	CIVL3036, MATH4174	DR
	CIVL5336	Construction Management	3	3			CIVL5204	DR
	CIVL5401	Estimating and Cost Control	3	2		2	CIVL5336*	DR
Total			15					

Summer 2008	ENGR4006	Industrial Training II	0					CR
	Total		0					

Semester 9 Fall 2008		Department Elective ^a	3					DR
	CIVL4146	Hydraulics	3	2		2	CIVL4046	DR
	CIVL4216	Steelwork Design	3	2	2		CIVL3036, 3046	DR
	CIVL4226	Foundation Engineering	3	2		2	CIVL3106, 4206	DR
	CIVL5402	Construction in Practice	3	2		2	CIVL5336	DR
	CIVL5998	Project I ^b	2				CIVL4136, 4206	DR
Total			17					

Semester 10 Spring 2009		University Elective II	3					UR
		Department Elective ^a	3					DR
	CIVL4006	Prob. & Statistics for Engineers	3	2		2		DR
	CIVL5316	Civil Engineering Design Project	3				CIVL5401, 5402	DR
	CIVL5999	Project II ^b	2				CIVL5998	DR
Total			14					

^a Department Electives – a student must choose three courses from elective courses offered in semester 8, 9 and 10.

^b Projects I and II: The student must work the project in the Construction Engineering subject