



College: **ENGINEERING**
 Department: **CIVIL AND ARCHITECTURAL ENGINEERING**
 Cohort: **2005 (Approved Modifications-November 10, 2008)**
 Degree: **B. ENG.**
 Major: **ARCHITECTURAL ENGINEERING**

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)	107
Department Core	38
Track	63
Electives	6
TOTAL	160

For reference contact: Professor Ramzi Taha Ext. 1332
 (HoD)

HoD Date

Dean's Office Date

Registrar's Office Date

Department of Civil and Architectural Engineering
Architectural Engineering Degree Plan: 2005 Cohort (Scheme I)

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Semester 1 Fall 2005		University English	0					UR
	Total			0				

Semester 2 Spring 2006	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 2006	LANC2161	English for Engineering II	3	3			LANC2160 or its equivalents	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 2007		University Elective I	3					UR	
		College Elective ¹	1		2			CR	
	ENGR2216	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			18						

Semester 5 Fall 2007	MATH3171	Linear Algebra & Multivariate	3	2		2	MATH2108, LANC2161	CR	
	MATH4174	Differential Equations for Engineers	3	2		2	MATH2108, LANC2161	CR	
	CIVL3002	Drawing I	2		4			DR	
	CIVL3056	Surveying	3	2	2		MATH2107	DR	
	CIVL3086	Mechanics of Materials	3	2			2	CIVL3216	DR
	CIVL3096	Construction Materials	3	2	2			CIVL3086*	DR
Total			17						

January 2008	ENGR3006	Industrial Training I	0				CIVL3056	CR
	Total			0				

¹ ENGR1601 WORKSHOP II
Last Modification: November 2008

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Semester 6 Spring 2008	CIVL4046	Fluid Mechanics	3	2	2		CIVL3216	DR
	CIVL3046	Drawing II	2		4		CIVL3002	DR
	CIVL3036	Structures I	3	2	2		CIVL3086	DR
	AREN 2101	Architectural Design I	3		6			DR
	AREN 2301	Architectural Drawing I	2		4			DR
	AREN 3401	History I: Modern & Contemporary	3	3				DR
Total			16					

Semester 7 Fall 2008	AREN 3801	Building Construction Methods	3	3				DR
	AREN 3102	Architectural Design II	4		8		AREN 2101	DR
	AREN 3302	Architectural Drawing II	2		4		Math 3171, Math 4174	DR
	AREN 3201	Architectural Design Theory	2	2				DR
	CIVL 4206	Concrete Design	3	2	2		CIVL3036,3046,3096	DR
Total			14					

Semester 8 Spring 2009								
	AREN 3303	Architectural Drawing III	3		6		AREN 3801	DR
	AREN 4103	Architectural Design III	5		10		AREN 3102	DR
	AREN 3402	History II: Islamic & Vernacular	2	2				DR
	AREN 3803	Environ I: Acoustics & Illumination	3	3			PHYS 2107	DR
AREN 3601	Settlement I	3	2	2			DR	
Total			16					

Semester 9 Fall 2009	CIVL4216	Steelwork Design	3	2	2		CIVL3036, 3046	DR
	MEIE 3141	Thermodynamics I	3	2	2			DR
	AREN 4809	Conservation Techniques	2	2				DR
	AREN 3804	Environ II: Climatic Design	3	3			PHYS 2107	DR
	AREN 3807	Services II: Mechanical Design	2	1	2			DR
	AREN 4104	Architectural Design IV	4		8		AREN 4103	DR
Total			17					

January 2010	AREN 4901	Practical Experience I	0					DR
	Total			0				

Semester 10 Spring 2010		University Elective II	3					UR
		Program Elective I²	3					DR
	CIVL 4006	Probability & Statistics	3	2		2	MATH 2107	DR
	AREN 3806	Services I: Sanitary & Plumbing	2	1	2			DR
	AREN 4105	Architectural Design V	2		2		AREN 4103, CIVL4216 or CIVL 4206	DR
	CIVL5204	Engineering Economics	3	2		2	MATH2107	DR
Total			16					

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Summer 2010	ENGR4006	Industrial Training II	0				ENGR3006	CR
	Total			0				

Semester 11 Fall 2010		Program Elective II²	3					DR
	AREN 3805	Environ III: Hot Arid Design	2	2			AREN 3804	DR
	AREN 4808	Services III: Electrical Design	2	1	2			DR
	AREN 4803	Professional Practice & Specifications	2				AREN 4105	DR
	AREN 5106	Architectural Design VI	4		10		AREN 4105	DR
	CIVL 5336	Construction Management	3	3			CIVL5204	DR
Total			16					

²Students select any two courses of this list:

Course Code	Course Name	Credit Hours	Pre-req./Co-req.
PETM 3006	Engineering Geology	3	----
CIVL 5146	Numerical Methods	3	ENGR 2216
PHYS 3019	Mechanics and Thermal Physics	4	MATH 2107 & PHYS 2102
PHYS 5013	Environmental Physics I	3	PHYS 2102 or PHYS 2002
CHEM 2102	General Chemistry II	4	CHEM 1071 or CHEM 2101 or CHEM 2107

Department of Civil and Architectural Engineering

Architectural Engineering Degree Plan: 2005 Cohort (Scheme II)

Semester 1 Fall 2005	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
		University English	0					UR
	Total		0					
Semester 2 Spring 2006		University English	0					UR
	Total		0					
Semester 3 Fall 2006		University Elective	3					UR
	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 2007	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 2007	MATH2108	Calculus II	3				MATH2107	CR
	CIVL3216	Basic Mechanics	4	3		2	PHYS2107	DR
	Total		7					
Semester 5 Fall 2007		College Elective ¹²	1		2			CR
	PHYS2108	General Physics II	4	3	3		PHYS 2107	CR
	CIVL3002	Drawing I	2		4			DR
	CIVL3056	Surveying	3	2	2		MATH2107	DR
	CIVL3086	Mechanics of Materials	3	2		2	CIVL3216	DR
	CIVL3096	Construction Materials	3	2	2		CIVL3086*	DR
	Total		16					
January 2008	ENGR3006	Industrial Training I	0				CIVL3056	CR
	Total		0					

¹ENGR1601 WORKSHOP II
Last Modification: November 2008

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Semester 6 Spring 2008	ENGR2216	Programming in Fortran	3	2	2			CR
	MATH3171	Linear Algebra & Multivariate	3	2		2	MATH2108	CR
	CIVL3036	Structures I	3	2	2		CIVL3086	DR
	AREN 2101	Architectural Design I	3		6			DR
	AREN 2301	Architectural Drawing I	2		4			DR
	CIVL3046	Drawing II	2		4		CIVL3002	DR
	Total			16				

Summer 2008	CIVL4046	Fluid Mechanics	3	2	2		CIVL3216	DR
	AREN 3401	History I: Modern & Contemporary	3	3				DR
	Total			6				

Semester 7 Fall 2008	MATH4174	Differential Equations for	3	2		2	MATH2108	CR
	AREN 3801	Building Construction Methods	3	3				DR
	AREN 3102	Architectural Design II	4		8		AREN 2101	DR
	AREN 3302	Architectural Drawing II	2		4		Math 3171, Math 4174	DR
	AREN 3201	Architectural Design Theory	2	2				DR
	CIVL 4206	Concrete Design	3	2	2		CIVL3036,3046,3096	DR
Total			17					

Semester 8 Spring 2009	AREN 4103	Architectural Design III	5		10		AREN 3102	DR
	AREN 3303	Architectural Drawing III	3		6		AREN 3801	DR
	AREN 3402	History II: Islamic & Vernacular	2	2				DR
	AREN 3803	Environ I: Acoustics &	3	3			PHYS 2107	DR
	AREN 3601	Settlement I	3	2	2			DR
	Total			16				

Semester 9 Fall 2009	CIVL4216	Steelwork Design	3	2	2		CIVL3036, 3046	DR
	MEIE 3141	Thermodynamics I	3	2	2			DR
	AREN 4809	Conservation Techniques	2	2				DR
	AREN 3804	Environ II: Climatic Design	3	3			PHYS 2107	DR
	AREN 3807	Services II: Mechanical Design	2	1	2			DR
	AREN 4104	Architectural Design IV	4		8		AREN 4103	DR
Total			17					

January 2010	AREN 4901	Practical Experience I	0						DR
	Total			0					

Semester 10 Spring 2010		Program Elective I²	3					DR
		University Elective II	3					UR
	CIVL5204	Engineering Economics	3	2		2	MATH2107	DR
	AREN 3806	Services I: Sanitary & Plumbing	2	1	2			DR
	AREN 4105	Architectural Design V	2		2		AREN 4103, CIVL4216 or CIVL 4206	DR
	CIVL 4006	Probability & Statistics	3	2		2	MATH 2107	DR
	Total			16				

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Summer 2010	ENGR4006	Industrial Training II	0				ENGR3006	CR
	Total		0					

Semester 11 Fall 2010		Program Elective II²	3					DR
	AREN 4803	Professional Practice & Specifications	2				AREN 4105	DR
	AREN 5106	Architectural Design VI	4		10		AREN 4105	DR
	AREN 3805	Environ III: Hot Arid Design	2	2			AREN 3804	DR
	AREN 4808	Services III: Electrical Design	2	1	2			DR
	CIVL 5336	Construction Management	3	3			CIVL5204	DR
Total			16					

²Students select any two courses of this list:

Course Code	Course Name	Credit Hours	Pre-req./Co-req.
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PHYS 3019	Mechanics and Thermal Physics	4	MATH 2107 & PHYS 2102
PHYS 5013	Environmental Physics I	3	PHYS 2102 or PHYS 2002
CHEM 2102	General Chemistry II	4	CHEM 1071 or CHEM 2101 or CHEM 2107