



College: **ENGINEERING**  
Department: **CIVIL AND ARCHITECTURAL ENGINEERING**  
Cohort: **2006**  
Degree: **B. ENG.**  
Major: **ARCHITECTURAL ENGINEERING**

<b>University Requirements (UR)</b>	<b>18</b>
Arabic	3
English	6
Contemporary Omani Society	1
Oman & Islamic Civilization or Islamic Culture	2
Free Elective	6
<b>College Requirements (CR)</b>	<b>35</b>
Math	17
Physics	8
Computer Programming	3
Chemistry	3
Introduction to Engineering	2
Workshop	1
Elective	1
Industrial Training	0
<b>Department Requirements (DR)</b>	<b>107</b>
Department Core	38
Track	63
Electives	6
<b>TOTAL</b>	<b>160</b>

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

HoD Date

Dean's Office Date

Registrar's Office Date

**Department of Civil and Architectural Engineering**  
**Architectural Engineering Degree Plan: 2006 Cohort (Scheme I)**

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
<b>Semester 1 Fall 2006</b>		University English	<b>0</b>					UR
	<b>Total</b>			<b>0</b>				

<b>Semester 2 Spring 2007</b>	ARAB1001	Arabic	<b>3</b>	3				UR
	HIST1010	Oman & Islamic Civilization or						
	ISLM1010	Islamic Culture	<b>2</b>	2				UR
	LANC2160	English for Engineering I	<b>3</b>	3				UR
	ENGR1500	Introduction to Engineering	<b>2</b>	1		2		CR
	ENGR1600	Workshop I	<b>1</b>		2			CR
	MATH1106	Pre-Calculus Mathematics	<b>4</b>	3		2		CR
<b>Total</b>			<b>15</b>					

<b>Semester 3 Fall 2007</b>	LANC2161	English for Engineering II	<b>3</b>	3			LANC2160 or its equivalents	UR
	SOCI3320	Contemporary Omani Society	<b>1</b>	1				UR
	CHEM1071	General Chemistry for Engineers	<b>3</b>	3				CR
	MATH2107	Calculus I	<b>4</b>	3		2	MATH1106	CR
	PHYS2107	General Physics I	<b>4</b>	3	3		MATH2107*	CR
<b>Total</b>			<b>15</b>					

<b>Semester 4 Spring 2008</b>		University Elective I	<b>3</b>					UR
		College Elective <sup>1</sup>	<b>1</b>		2			CR
	COMP2216	Programming in Fortran	<b>3</b>	2	2			CR
	MATH2108	Calculus II	<b>3</b>	2		2	MATH 2107	CR
	PHYS2108	General Physics II	<b>4</b>	3	3		PHYS 2107	CR
	CIVL3216	Basic Mechanics	<b>4</b>	3		2	PHYS2107	DR
<b>Total</b>			<b>18</b>					

<b>Semester 5 Fall 2008</b>	MATH3171	Linear Algebra & Multivariate	<b>3</b>	2		2	MATH2108, LANC2161	CR
	MATH4174	Differential Equations for Engineers	<b>3</b>	2		2	MATH2108, LANC2161	CR
	CIVL3002	Drawing I	<b>2</b>		4			DR
	CIVL3056	Surveying	<b>3</b>	2	2		MATH2107	DR
	CIVL3086	Mechanics of Materials	<b>3</b>	2		2	CIVL3216	DR
	CIVL3096	Construction Materials	<b>3</b>	2	2		CIVL3086*	DR
<b>Total</b>			<b>17</b>					

<b>January 2009</b>	ENGR3006	Industrial Training I	<b>0</b>				CIVL3056	CR
	<b>Total</b>			<b>0</b>				

<sup>1</sup> ENGR1601 WORKSHOP II  
**Last Modification: Nov. 2008.**

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Semester 6 Spring 2009	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
<b>Total</b>			<b>16</b>					

Semester 7 Fall 2009	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
<b>Total</b>			<b>14</b>					

Semester 8 Spring 2010								
	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 2017	DR
AREN 3601	Settlement I	3	2	2			DR	
<b>Total</b>			<b>16</b>					

Semester 9 Fall 2010	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 2017	DR
	AREN 3807	Services II: Mechanical Design	2	1	2			DR
	AREN 4104	Architectural Design IV	4		8		AREN 4103	DR
<b>Total</b>			<b>17</b>					

January 2011	AREN 4901	Practical Experience I	0					DR
	<b>Total</b>			<b>0</b>				

Semester 10 Spring 2011		University Elective II	3					UR
		<b>Program Elective I<sup>2</sup></b>	3					<b>DR</b>
	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
<b>Total</b>			<b>16</b>					

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Summer 2011	ENGR4006	Industrial Training II	0				ENGR3006	CR
	<b>Total</b>			<b>0</b>				

Semester 11 Fall 2011		<b>Program Elective II<sup>2</sup></b>	3					<b>DR</b>
	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
<b>Total</b>			<b>17</b>					

<sup>2</sup>Students 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: 2006 Cohort (Scheme II)

Semester 1 Fall 2006	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
		University English	0					UR
	<b>Total</b>		<b>0</b>					
Semester 2 Spring 2007		University English	0					UR
	<b>Total</b>		<b>0</b>					
Semester 3 Fall 2007		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
	<b>Total</b>		<b>16</b>					
Semester 4 Spring 2008	ARAB1001	Arabic	3	3				UR
	HIST1010	Oman & Islamic Civilization <b>or</b>						
	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
	<b>Total</b>		<b>17</b>					
Summer 2008	MATH2108	Calculus II	3				MATH2107	CR
	CIVL3216	Basic Mechanics	4	3		2	PHYS2107	DR
	<b>Total</b>		<b>7</b>					
Semester 5 Fall 2008		College Elective <sup>2</sup>	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
	<b>Total</b>		<b>16</b>					
January 2009	ENGR3006	Industrial Training I	0				CIVL3056	CR
	<b>Total</b>		<b>0</b>					

<sup>2</sup> ENGR1601 WORKSHOP II  
Last Modification: Nov. 2008.

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Semester 6 Spring 2009	COMP2216	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
	<b>Total</b>			<b>16</b>				

Summer 2009	CIVL4046	Fluid Mechanics	3	2	2		CIVL3216	DR
	AREN 3401	History I: Modern & Contemporary	3	3				DR
	<b>Total</b>			<b>6</b>				

Semester 7 Fall 2009	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
<b>Total</b>			<b>17</b>					

Semester 8 Spring 2010	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 2017	DR
	AREN 3601	Settlement I	3	2	2			DR
	<b>Total</b>			<b>16</b>				

Semester 9 Fall 2010	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 2017	DR
	AREN 3807	Services II: Mechanical Design	2	1	2			DR
	AREN 4104	Architectural Design IV	4		8		AREN 4103	DR
<b>Total</b>			<b>17</b>					

January 2011	AREN 4901	Practical Experience I	0						DR
	<b>Total</b>			<b>0</b>					

Semester 10 Spring 2011		<b>Program Elective I<sup>2</sup></b>	<b>3</b>					<b>DR</b>
		University Elective II	<b>3</b>					UR
	CIVL5204	Engineering Economics	<b>3</b>	2		2	MATH2107	DR
	AREN 3806	Services I: Sanitary & Plumbing	<b>2</b>	1	2			DR
	AREN 4105	Architectural Design V	<b>2</b>		2		AREN 4103, CIVL4216 or CIVL 4206	DR
	CIVL 4006	Probability & Statistics	<b>3</b>	2		2	MATH 2107	DR
	<b>Total</b>			<b>16</b>				

	Course Code	Course Title	Cr.	Lec.	Lab.	Tut.	Pre-req./Co-req.*	Cat.
Summer 2011	ENGR4006	Industrial Training II	<b>0</b>				ENGR3006	CR
	<b>Total</b>			<b>0</b>				

Semester 11 Fall 2011		<b>Program Elective II<sup>2</sup></b>	<b>3</b>					<b>DR</b>
	AREN 4803	Professional Practice & Specifications	<b>2</b>				AREN 4105	DR
	AREN 5106	Architectural Design VI	<b>4</b>		10		AREN 4105	DR
	AREN 3805	Environ III: Hot Arid Design	<b>2</b>	2			AREN 3804	DR
	AREN 4808	Services III: Electrical Design	<b>2</b>	1	2			DR
	CIVL 5336	Construction Management	<b>3</b>	3			CIVL5204	DR
<b>Total</b>			<b>16</b>					

<sup>2</sup>Students select any two courses of this list:

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PETM 3006	Engineering Geology	3	----
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CHEM 2102	General Chemistry II	4	CHEM 1071 or CHEM 2101 or CHEM 2107