

# Bachelor of Science in Architectural Studies

## Building Information Modeling

Semester	Course Code		Subject Title	Pre-requisite / Co-requisite	Credit Hours
Semester 1	LNG	171	English I	None	3
	MTH	112	Calculus I	Pass Math Placement test or MTH-012	3
	DES	121	Design Theory	Co-DES 161 & 171	3
	DES	161	Introduction to Design (Studio)	Co-DES 121 & 171	4
	DES	171	Drafting & Modelling	Co-DES 121 & 161	3
	<b>Total</b>				<b>16</b>
Semester 2	LNG	172	English II	LNG-171	3
	SCI	101	Physics I	None	3
	DES	172	Freehand Drawing & Rendering	Co-DES 122 & 161	3
	DES	122	Human Factors	Co-DES 162 & 172	3
	DES	162	Fundamentals of Design (Studio)	DES-161, DES-121 & DES-171 <u>Co-DES 122 &amp; 172</u>	4
	<b>Total</b>				<b>16</b>
Semester 3	DES	221	History of Architecture & Interior Design 1	LNG-171 & DES-121	3
	GED	Xxx	Humanity Elective		3
	DES	241	Construction & Design Integration	DES-162	3
	DES	261	Design Principles (Studio)	DES-122, 162 & DES-172	6
	DES	271	Computer Aided Design	DES-171	3
	<b>Total</b>				<b>18</b>
Semester 4	DES	222	History of Architecture & Interior Design 2	DES-221	3
	ARC	232	Site Planning & Landscape	None	3

Semester	Course Code		Subject Title	Pre-requisite / Co-requisite	Credit Hours
	ARC	242	Advanced Construction & Design Integration	DES-241	3
	ARC	262	Design Methods (Studio)	DES-261	6
	ARC	272	Building Information Modelling	DES-271	3
	<b>Total</b>				<b>18</b>
Semester 5	GED	196	Communication Skills in Arabic 1	None	3
	DES	341	Environmental Systems & Design Integration.	ARC-262 /IND-262 and ARC-232/IND-232	3
	ARC	343	Structures 1	MTH-112, SCI-101 & ARC-242	3
	ARC	361	Environmental Design (Studio)	ARC-262 & DES-222	6
	LNG	173	Professional Communication Skills	LNG 172	3
	<b>Total</b>				<b>18</b>
Semester 6	ARC	321	Research & Design Applications	ARC-262 & LNG-173	3
	ARC	342	Advanced Environmental Systems & Design Integration	DES-341 & ARC-242	3
	ARC	344	Structures 2	ARC-343	3
	ARC	362	Design Studio (Housing)	ARC-361. 343, 272	6
	DES	371	Working Drawings & Detailing	ARC-361/IND-361 and ARC- 242/IND-242	3
	<b>Total</b>				<b>18</b>
Semester 7	GED	199	UAE Society	None	3
	GED	140	Fundamentals of Innovation and Entrepreneurship	None	3
	BIM	441	Building Information Modeling and Quantification	300 series	3
	BIM	461	BIM Specialized Design Studio	300 Series	6

Semester	Course Code		Subject Title	Pre-requisite / Co-requisite	Credit Hours
	BIM	XXX	BIM Concentration Elective-1	ARC 272 & 300 series	3
	<b>Total</b>				<b>18</b>
Semester 8	GED	198	Islamic Culture	None	3
			Common Major Elective 1		3
	BIM	XXX	BIM Concentration Elective-2	ARC 272 & 300 series	3
	BIM	462	BIM Senior Project – Design (Studio)	BIM 461	6
	<b>Total</b>				<b>15</b>
DES-351 Internship (Between Semesters 6 and 7 & after semester 8)				90 Cr.H. & CGPA $\geq$ 2	3
<b>Total</b>					<b>140</b>

## Sustainability

Semester	Course Code		Subject Title	Pre-requisite / Co-requisite	Credit Hours
Semester 1	LNG	171	English I	None	3
	MTH	112	Calculus I	Pass Math Placement test or MTH-012	3
	DES	121	Design Theory	Co-DES 161 & 171	3
	DES	161	Introduction to Design (Studio)	Co-DES 121 & 171	4
	DES	171	Drafting & Modelling	Co-DES 121 & 161	3
	<b>Total</b>				<b>16</b>
Semester 2	LNG	172	English II	LNG-171	3
	SCI	101	Physics I	None	3
	DES	172	Freehand Drawing & Rendering	Co-DES 122 & 161	3
	DES	122	Human Factors	Co-DES 162 & 172	3
	DES	162	Fundamentals of Design (Studio)	DES-161, DES-121 & DES-171 <u>Co-DES 122 &amp; 172</u>	4
	<b>Total</b>				<b>16</b>
Semester 3	DES	221	History of Architecture & Interior Design 1	LNG-171 & DES-121	3
	GED	Xxx	Humanity Elective		3
	DES	241	Construction & Design Integration	DES-162	3
	DES	261	Design Principles (Studio)	DES-122, 162 & DES-172	6
	DES	271	Computer Aided Design	DES-171	3
	<b>Total</b>				<b>18</b>
Semester 4	DES	222	History of Architecture & Interior Design 2	DES-221	3
	ARC	232	Site Planning & Landscape	None	3

Semester	Course Code		Subject Title	Pre-requisite / Co-requisite	Credit Hours
	ARC	242	Advanced Construction & Design Integration	DES-241	3
	ARC	262	Design Methods (Studio)	DES-261	6
	ARC	272	Building Information Modelling	DES-271	3
	<b>Total</b>				<b>18</b>
Semester 5	GED	196	Communication Skills in Arabic 1	None	3
	DES	341	Environmental Systems & Design Integration.	ARC-262 /IND-262 and ARC-232/IND-232	3
	ARC	343	Structures 1	MTH-112, SCI-101 & ARC-242	3
	ARC	361	Environmental Design (Studio)	ARC-262 & DES-222	6
	LNG	173	Professional Communication Skills	LNG 172	3
	<b>Total</b>				<b>18</b>
Semester 6	ARC	321	Research & Design Applications	ARC-262 & LNG-173	3
	ARC	342	Advanced Environmental Systems & Design Integration	DES-341 & ARC-242	3
	ARC	344	Structures 2	ARC-343	3
	ARC	362	Design Studio (Housing)	ARC-361. 343, 272	6
	DES	371	Working Drawings & Detailing	ARC-361/IND-361 and ARC- 242/IND-242	3
	<b>Total</b>				<b>18</b>
Semester 7	GED	199	UAE Society	None	3
	GED	140	Fundamentals of Innovation and Entrepreneurship	None	3
	BIM	441	Building Information Modeling and Quantification	300 series	3

Semester	Course Code		Subject Title	Pre-requisite / Co-requisite	Credit Hours
	SUS	461	Sustainability Specialized Design Studio	300 Series	6
	SUS	XXX	SUS Concentration Elective-1	300 series	3
	<b>Total</b>				<b>18</b>
Semester 8	GED	198	Islamic Culture	None	3
			Common Major Elective 1		3
	SUS	XXX	SUS Concentration Elective-2	300 series	3
	SUS	462	Sustainability Senior Project – Design (Studio)	SUS-461 and SUS elective	6
	<b>Total</b>				<b>15</b>
DES-351 Internship (Between Semesters 6 and 7 & after semester 8)				90 Cr.H. & CGPA $\geq$ 2	3
<b>Total</b>					<b>140</b>