

RIT - Dubai

Master of Engineering in
Mechanical Engineering

Core Courses

Course Number	Credit Hours	Course Title	Quarter(s)	Offered
0304-870	4	Mathematics for Engineers I		20081
0304-823	4	Systems Modeling		20083
0304-865	4	Computer Implementation of Finite Element Method		20082
Total Core Credits	12	All students must complete these three courses (12 credits)		

Required and Elective Courses

Course Number	Credit Hours	Course Title	Offered
0304-880	4	Project with Paper	20091
0304-871	4	Mathematics for Engineers II	20082
0304-874	4	Numerical Analysis	20083
0304-	4	Graduate or Technical Elective 4 (0304-600 or higher)	
0304-	4	Graduate or Technical Elective 5 (0304-600 or higher)	
Required and Elective Credits	20	All students must complete five courses (20 credits as indicated)	

Concentration Area Courses (complete a *minimum* of four courses from a concentration area:)

Concentration Credits	16	Students must complete a <i>minimum</i> of four courses (16 credits) from a concentration area
Total Credits Required	48	Students must complete a <i>minimum</i> of twelve courses (48 credits) for completion of the M.Eng. Degree

Concentration Courses

Business Concentration (Two Required Plus Select Two Elective Courses)			
0101-703 (Req'd)	4	Accounting for Decision Makers	20081 20091
0102-740 (Req'd)	4	Organizational Behavior and Leadership	20083 20093
0123-705	4	Economics for Managers	20082 20092
0104-721	4	Financial Analysis for Managers	20082 20092
0104-722	4	Financial Management II	20083 20093
0102-740	4	Statistical Analysis for Decision Makers	20081 20091
0113-710	4	Global Business Environments	20092
Sustainable Energy Engineering Concentration (Select Four)			
0304-643	4	Control Systems	Rochester 20084 20094
0304-660	4	Refrigeration and Air Conditioning	Rochester 20084 20094
0304-710	4	Fuel Cell Technology	(Simulcast) 20092
0304-729	4	Renewable Energy Systems	(Simulcast) 20091
0304-739	4	Sustainable Energy Management (or other approved graduate energy course)	(Simulcast) 20093
Systems and Controls Concentration (Select Four)			
0304-643	4	Control Systems	Rochester 20084 20094
0304-743	4	Intermediate Control Systems	TBD
0304-843	4	Advanced Control Systems	TBD
0301-702	4	Random Signals and Noise	20081
		Additional EE Controls courses accepted with approval	

Schedule	Credits	Example Program of Study for M.Eng./Business Concentration	Quarter
Fall 20081			
0101-703 (Req'd)	4	Accounting for Decision Makers	20081
0304-870	4	Mathematics for Engineers I	20081
Winter 20082			
0123-705	4	Economics for Managers	20082
0304-871	4	Mathematics for Engineers II	20082
0304-865	4	Computer Implementation of Finite Element Method	20082
Spring 20083			
0102-740 (Req'd)	4	Organizational Behavior and Leadership	20083
0304-823	4	Systems Modeling	20083
0304-874	4	Numerical Analysis	20083
Summer 20084			
0304-643	4	Control Systems	Rochester 20084
0304-660	4	Refrigeration and Air Conditioning	Rochester 20084
Fall 20091			
0304-880	4	Project with Paper	20091
Winter 20092			
0113-710	4	Global Business Environments	20092
Total Credits	48		

Schedule	Credits	Example Program of Study for M.Eng./Energy Concentration	Quarter
Fall 20081			
0101-703	4	Accounting for Decision Makers	20081
0304-870	4	Mathematics for Engineers I	20081
Winter 20082			
0304-871	4	Mathematics for Engineers II	20082
0304-865	4	Computer Implementation of Finite Element Method	20082
Spring 20083			
0304-823	4	Systems Modeling	20083
0304-874	4	Numerical Analysis	20083
Summer 20084			
0304-643	4	Control Systems	Rochester 20084
0304-660	4	Refrigeration and Air Conditioning	Rochester 20084
Fall 20091			
0304-880	4	Project with Paper	20091
0304-729	4	Renewable Energy Systems	Simulcast 20091
Winter 20092			
0304-710	4	Fuel Cell Technology	Simulcast 20092
Spring 20093			
0304-739	4	Sustainable Energy Management	Simulcast 20093
Total Credits	48		

Schedule	Credits	Example Program of Study for M.Eng./Controls Concentration	Quarter
Fall 20081			
0301-702	4	Random Signals and Noise	20081
0304-870	4	Mathematics for Engineers I	20081
Winter 20082			
0304-871	4	Mathematics for Engineers II	20082
0304-865	4	Computer Implementation of Finite Element Method	20082
Spring 20083			
0304-823	4	Systems Modeling	20083
0304-874	4	Numerical Analysis	20083
Summer 20084			
0304-643	4	Control Systems or Electrical Engineering Course	Rochester 20084
0304-660	4	Refrigeration and Air Conditioning or Electrical Engineering Course	Rochester 20084
Fall 20091			
0304-880	4	Project with Paper	20091
0304-729	4	Renewable Energy Systems or Electrical Engineering Course	Simulcast 20091
Offerings TBD			
To Be Determined, Based upon student interest			
0304-743	4	Intermediate Control Systems	TBD
0304-843	4	Advanced Control Systems	TBD
Total Credits	48		