

Mechanical Engineering

Four year plan

Fall			Winter			Summer		
1st Year								
MTH 201	Calculus I	4	MTH 202	Calculus II	4			
WRT 150	Strategies in Writing	4	PHY 230	Physics I	5			
EGR 100	Intro to EGR	1	EGR 113	Intro to CAD/CAM	1			
EGR 111	Intro to EGR Graphics	1	EGR 185	First-Year EGR Design	2			
EGR 112	Applied Programming for EGR	2	STA 220	Statistical Modeling for EGR	2			
CHM 125+126	Chemistry 1	4	EGR 220	EGR Measure & Data	1			
		16			15			
2nd Year								
MTH 203	Calculus III	4	Winter Semester in Paris			EGR 290	Engineering Co-op I	3
PHY 231	Physics II	5	MTH 302	Linear Algebra/Diff Eq	4	General Education		3
EGR 226	Microcontroller Program	3	MTH 204	Linear Algebra	3	EGR 309	Machine Design I	3
EGR 227	Microcontroller Program Lab	1	MTH 304	Differential Equations	3	EGR 310	Machine Design I Lab	1
EGR 209	Mechanics and Machines	4	EGR 309	Machine Design I	3	EGR 215	Circuit Analysis I Lab	1
EGR 289	EGR Professionalism	1	EGR 310	Machine Design I Lab	1			
			EGR 312	Dynamics	3			
			EGR 214	Circuit Analysis I	3			
			EGR 215	Circuit Analysis I Lab	1			
		18			12	8		

Fall			Winter			Summer		
1st Year								
MTH 201	Calculus I	4	MTH 202	Calculus II	4			
WRT 150	Strategies in Writing	4	CHM 125+126	Chemistry I	4			
EGR 100	Intro to EGR	1	EGR 108	Applied Program for EGR II	2			
EGR 111	Intro to EGR Graphics	1	EGR 113	Intro to CAD/CAM	1			
EGR 104	Applied Program for EGR I	2	General Education		3			
General Education		3						
		15				14		
2nd Year								
MTH 203	Calculus III	4	MTH 302	Linear Algebra/Diff Eq	4			
EGR 185	First-Year EGR Design	2	EGR 209	Mechanics and Machines	4			
PHY 230	Physics I	5	EGR 226	Microncontroller Program	3			
General Education		3	EGR 227	Microncontroller Program Lab	1			
			General Education		3			
		14						
3rd Year								
PHY 231	Physics II	5	Winter Semester in Paris			EGR 290	Engineering Co-op I	3
EGR 214	Circuit Analysis I	3	EGR 312	Dynamics	3	EGR 215	Circuit Analysis I Lab	1
EGR 215	Circuit Analysis I Lab	1	STA 220	Statistical Modeling for EGR	2			
EGR 309	Machine Design I	3	EGR 220	EGR Measure & Data	1			
EGR 310	Machine Design I Lab	1	General Education		3			
EGR 289	EGR Professionalism	1	General Education		3			
STA 220	Statistical Modeling for EGR	2	EGR 214	Circuit Analysis I	3			
EGR 220	EGR Measure & Data	1	EGR 360	Thermodynamics	4			
		13				13	4	
4th Year								
EGR 250	Materials Science & EGR	3	EGR 390	Engineering Co-op II	3	EGR 329	Intro to FEA	3
EGR 251	Materials Science & EGR Lab	1	General Education	3	EGR 365	Fluid Mechanics	4	
EGR 346	Mechatronics & Control	4				EGR 409	Machine Design II	4
EGR 360	Thermodynamics	4				ECO 210/211	Economics	3
General Education		3						
General Education		3						
		14				3	14	
5th Year								
EGR 490	Engineering Co-op III	3	EGR 485	Senior EGR Project I	1	EGR 486	Senior EGR Project II	2
			EGR 468	Heat Transfer	4	ME Elective	3-4	
			ME Elective	3-4	ME Elective	3-4		
			General Education	3	General Education	3		
			3	11-12		11-13		

MTH 124 Five year plan

Fall			Winter			Summer		
1st Year								
MTH 124	Precalculus: F&M	5	MTH 201	Calculus I	4			
WRT 150	Strategies in Writing	4	CHM 125+126	Chemistry I	4			
EGR 100	Intro to EGR	1	EGR 108	Applied Program for EGR II	2			
EGR 111	Intro to EGR Graphics	1	EGR 113	Intro to CAD/CAM	1			
EGR 104	Applied Program for EGR I	2	General Education	3				
		13			14			
2nd Year								
MTH 202	Calculus II	4	MTH 203	Calculus III	4			
EGR 185	First-Year EGR Design	2	EGR 209	Mechanics and Machines	4			
PHY 230	Phyics I	5	EGR 226	Microncontroller Program	3			
General Education		3	EGR 227	Microncontroller Program Lab	1			
		14	General Education	3				
					15			
3rd Year								
MTH 302	Linear Algebra/Diff Eq	4	Winter Semester in Paris			EGR 290	Engineering Co-op I	3
EGR 214	Circuit Analysis I	3	PHY 231	Physics II	5	EGR 215	Circuit Analysis I Lab	1
EGR 215	Circuit Analysis I Lab	1	STA 220	Statistical Modeling for EGR	2	General Education3		
EGR 309	Machine Design I	3	EGR 220	EGR Measure & Data	1			
EGR 310	Machine Design I Lab	1	EGR 312	Dynamics	3			
EGR 289	EGR Professionalism	1	General Education	3				
PHY 231	Physics II	5	MTH 204	Linear Algebra	3			
STA 220	Statistical Modeling for EGR	2	MTH 304	Differential Equations	3			
EGR 220	EGR Measure & Data	1	EGR 214	Circuit Analysis I	3			
		13			12	7		