	Autumn	Winter	Spring	Autumn	Winter	Spring				
Starting Even (E) Year	(E)	(0)	(0)	(0)	(E)	(E)				
Required Courses										
Mechanical Eng. Analysis I	ME564									
Mechanical Eng. Analysis II		ME565								
Mathematical Foundations										
Math. Foundations of Sys.	ME510			ME510						
Manifold and Geometry					ME570 (E)					
Geometric Methods						ME580(E)				
Applied Linear Algebra				Amath584						
Applied Prob. & Statistics						Amath506				
Mechatronics, Controls and Robotics										
Linear Systems Theory	ME547									
Linear Multivariable Cont.		ME548								
Estimation and Sys. Id.			ME549							
Digital Control		ME581			ME581					
Nonlinear Control Systems			ME583(O)							
Robust Control			ME594(O)							
Feedforward Control						ME593(E)				
Nonlinear Optimal Control				ME550(O)						
Optimization in Systems		ME578			ME578					
Intro. Discrete Event Sys.						ME582(E)				
Syst. ID & Adaptive Control						ME585(E)				
Models of Robot Manipulation		ME543(O)								
Networked Dynamic Systems						ME597(E)				
	Dynamics									
Dynamics and Vibrations	ME588			ME588						
Vibrations					ME589(E)					
Principles of Dynamics	AA571			AA571						
Flight Controls										
Stability/Control: Flight Vehicles	AA516			AA516						
Aut. Control of Flight Vehicles			AA518(O)							
Spacecraft Dyn. & Control		AA528			AA528					
Undergraduate Courses										
Automatic Control	ME471			ME471						
Instrumentation	ME473			ME473						
Embedded Computing		ME477			ME477					
Dynamics	ME469			ME469						
Electric Circuits Laboratory I		Phys344			Phys 334					
Electric Circuits Laboratory II			Phys 335			Phys 335				

Controls/Robotics/Mechatronics MS Course Recommendations

(O) Stands for odd year offerings, (E) for even year.

A suggested sequence is highlighted in yellow. Discuss with Faculty Advisor about alternate sequences.

Consider taking ME520 Seminar or research credits (as needed).

ME543 can be considered instead of ME581 in winter of first year

If controls background is not strong, take ME471 instead of ME510 in first year

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Starting Odd (O) Year	Autumn (O)	Winter (E)	Spring (E)	Autumn (E)	Winter (O)	Spring (O)				
Required Courses										
Mechanical Eng. Analysis I	ME564									
Mechanical Eng. Analysis II		ME565								
Mathematical Foundations										
Math. Foundations of Sys.	ME510			ME510						
Manifold and Geometry		ME570(E)								
Geometric Methods		<u> </u>	ME580(E)							
Applied Linear Algebra				Amath584						
Applied Prob. & Statistics						Amath506				
Mechatronics, Controls and Robotics										
Linear Systems Theory	ME547									
Linear Multivariable Cont.		ME548								
Estimation and Sys. Id.			ME549							
Digital Control		ME581			ME581					
Nonlinear Control Systems						ME583 (O)				
Robust Control						ME594 (O)				
Feedforward Control			ME593 (E)							
Nonlinear Optimal Control	ME550(O)									
Optimization in Systems		ME578			ME578					
Intro. Discrete Event Sys.			ME582 (E)							
Syst. ID & Adaptive Control			ME585 (E)							
Models of Robot Manipulation					ME543 (O)					
Networked Dynamic Systems			ME597(E)							
	•	Dynamic	S							
Dynamics and Vibrations	ME588			ME588						
Vibrations		ME589 (E)								
Principles of Dynamics	AA571			AA571						
Flight Controls										
Stability/Control: Flight Vehicles	AA516			AA516						
Aut. Control of Flight Vehicles						AA518 (O)				
Spacecraft Dyn. & Control		AA528			AA528					
Undergraduate Courses										
Automatic Control	ME471			ME471						
Instrumentation	ME473			ME473						
Embedded Computing		ME477			ME477					
Dynamics	ME469			ME469						
Electric Circuits Laboratory I		Phys 334			Phys 334					
Electric Circuits Laboratory II			Phys 335			Phys 335				

Controls/Robotics/Mechatronics MS Course Recommendations

(O) Stands for odd year offerings, (E) for even year.

A suggested sequence is highlighted in yellow. Discuss with Faculty Advisor about alternate sequences.

Consider taking ME520 Seminar or research credits (as needed).

ME589 can be considered instead of ME581 in winter of first year

If controls background is not strong, take ME471 instead of ME510 in first year