Western S Engineering

Mechatronic Systems Engineering

September 2023 (for students who entered first year in September 2018 or later)

Year 2		NOTES:	
Term A			
NMM 2270A	Applied Mathematics for Engineering II	Non-technical ele	ectives:
ECE 2205A	Electric Circuits I	https://www.eng.uwo.ca/undergraduate/upper-	
MSE 2200Q	Engineering Shop Safety Training	year/electives.htr	
MSE 2201A	Introduction to Electrical Instrumentation	<u>year/cleativesinti</u>	<u></u>
MSE 2201/	Mechanics of Materials		
MSE 2212A MSE 2214A	Thermodynamics		
CS 1037A	Computer Science Fundamentals II		
C3 103/A	computer science i undamentais in		
Term B			
NMM 2276B	Applied Mathematics for Elec. & Mech. Engineering III		
MSE 2202B	Introduction to Mechatronic Design		
MSE 2213B	Engineering Dynamics		
MSE 2233B	Circuits and Systems		
MSE 2273B	Introduction to Heat Transfer and Fluid Mechanics		
Writ 2130G	Building Better (Communication) Bridges: Rhetoric &		
	Professional Communication for Engineers		
Year 3			
Term A			
-	Applied Math for Electrical Engineering		
NMM 3415A	Applied Math for Electrical Engineering		
ECE 2277A	Digital Logic Systems		
ECE 3330A	Control Systems		
MSE 3301A	Materials Selection and Manufacturing Processes		
MSE 3310A	Electric Motors and Drives	Technical Elective	25
MSE 3381A	Kinematics and Dynamics of Machines	Some technical el	ectives may not be offered in a given
			onsult the Department for accurate listing.
Term B			
ECE 3331B	Signal Processing	ECE 3380A/B	Advanced Digital Systems
ECE 3375B	Microprocessors and Microcomputers	ECE 4429A/B	Advanced Digital Signal Processing
MSE 3302B	Sensors and Actuators	ECE 4438A/B	Advanced Image Processing and Analysis
MSE 3360B	Finite Element Methods for Mechatronic Systems	ECE 4445A/B	Introduction to Digital Image Processing
	Engineering	ECE 4455A/B	Biomedical Systems Analysis
MSE 3380B	Machine Component Design for Mechatronic Systems	ECE 4468A/B	Systems Optimization
One 0.5-credit non-technical elective taken from the approved list		MME 4424A/B	Mechanical Properties of Materials
		MME 4425A/B	Mechanical Vibrations
Year 4		MME 4459A/B	Advanced CAE: Manufacturing Technologies
Term A		MME 4469A/B	Biomechanics of the Musculoskeletal
MSE 4401A	Robotic Manipulators		System
	Mechatronic Design Project	MME 4470A/B	Medical and Assistive Devices
MSF 4499			Computer Integrated Manufacturing
MSE 4499 SS 2141A	• •	MME 4473A/B	Computer Integrated Manufacturing
SS 2141A	Applied Probability and Statistics for Engineers	MME 4473A/B MME 4480A/B	Advanced CAE: Reverse Engineering
	Applied Probability and Statistics for Engineers Engineering Ethics, Sustainable Development & the		
SS 2141A ELI 4110F	Applied Probability and Statistics for Engineers	MME 4480A/B	Advanced CAE: Reverse Engineering
SS 2141A ELI 4110F Two 0.5-credit	Applied Probability and Statistics for Engineers Engineering Ethics, Sustainable Development & the Law	MME 4480A/B MME 4482A/B	Advanced CAE: Reverse Engineering Fundamentals of MEMS
SS 2141A ELI 4110F Two 0.5-credit Term B	Applied Probability and Statistics for Engineers Engineering Ethics, Sustainable Development & the Law t technical electives	MME 4480A/B MME 4482A/B	Advanced CAE: Reverse Engineering Fundamentals of MEMS
SS 2141A ELI 4110F Two 0.5-credit	Applied Probability and Statistics for Engineers Engineering Ethics, Sustainable Development & the Law t technical electives Mechatronic Design Project	MME 4480A/B MME 4482A/B	Advanced CAE: Reverse Engineering Fundamentals of MEMS
SS 2141A ELI 4110F Two 0.5-credit Term B MSE 4499 ECE 4460B	Applied Probability and Statistics for Engineers Engineering Ethics, Sustainable Development & the Law t technical electives	MME 4480A/B MME 4482A/B	Advanced CAE: Reverse Engineering Fundamentals of MEMS
SS 2141A ELI 4110F Two 0.5-credit Term B MSE 4499 ECE 4460B ECE 4469B	Applied Probability and Statistics for Engineers Engineering Ethics, Sustainable Development & the Law t technical electives Mechatronic Design Project Real Time and Embedded Systems Applied Control Systems	MME 4480A/B MME 4482A/B	Advanced CAE: Reverse Engineering Fundamentals of MEMS
SS 2141A ELI 4110F Two 0.5-credit Term B MSE 4499 ECE 4460B ECE 4469B	Applied Probability and Statistics for Engineers Engineering Ethics, Sustainable Development & the Law t technical electives Mechatronic Design Project Real Time and Embedded Systems	MME 4480A/B MME 4482A/B	Advanced CAE: Reverse Engineering Fundamentals of MEMS