## Western S Engineering

## **Mechatronic Systems Engineering**

September 2018 (students who entered first year prior to September 2016)

Veen 3.		NOTEC	
Year 2:		NOTES:	
Term A			
AM 2270A	Applied Mathematics for Engineering II		
CS 1037A	Computer Science Fundamentals II		
ECE 2205A	Electric Circuits I		
MME 2202A	Mechanics of Materials		
MME 2204A	Thermodynamics		
MME 2200Q	Engineering Shop Safety Training		
MSE 2201A	Introduction to Electrical Instrumentation		
Term B			
AM 2276B	Applied Mathematics for Elec & Mech Eng III		
ES 2211G	Engineering Communications		
MME 2213B	Engineering Dynamics		
MSE 2202B	Introduction to Mechatronic Design		
MSE 2233B	Circuits and Systems		
SS 2143B	Applied Statistics and Data Analysis for Engineers		
<u>Year 3:</u>			
Term A			
AM 3415A	Applied Math for Electrical Engineering		
ECE 2277A	Digital Logic Systems		
ECE 3330A	Control Systems		
ECE 3332A	Electric Machines		
MSE 3301A	Materials Selection and Manufacturing Processes		
MSE 3381A	Kinematics and Dynamics of Machines		
Term B			
ECE 3331B	Signal Processing		
ECE 3375B	Microprocessors and Microcomputers	Technical Electiv	ve List:
MSE 3302B	Sensors and Actuators		
MSE 3360B	Finite Element Methods for Mechatronic Systems		ives may not be offered in a given academic
	Engineering	year. Consult the de	partment for accurate listing.
MSE 3380B	Machine Component Design for Mechatronic Systems	5050000 / 2	
0.5 non-techn	ical elective taken from the approved list	ECE 3380A/B	Advanced Digital Systems
		ECE 4429A/B	Advanced Digital Signal Processing
Year 4:		ECE 4438A/B	Advanced Image Processing and Analysis
Term A		ECE 4445A/B	Introduction to Digital Image Processing
BUS 2299e	Business for Engineers	ECE 4455A/B	Biomedical Systems Anaylsis
ECE 4457a	Power Electronics	ECE 4468A/B	Systems Optimization
MSE 4401A	Robotic Manipulators	MME 4424A/B	Mechanical Properties of Materials
MSE 4499	Mechatronic Design Project	MME 4425A/B	Mechanical Vibrations
Two 0.5 techn		MME 4459A/B	Advanced CAE: Manufacturing
			Technologies
Term B		MME 4469A/B	Biomechanics of the Musculoskeletal System
BUS 2299e	Business for Engineers	MME 4470A/B	Medical and Assistive Devices
ECE 4460B	Real Time and Embedded Systems	MME 4473A/B	Computer Integrated Manufacturing
ECE 4469B	Applied Control Systems	MME 4480A/B	Advanced CAE: Reverse Engineering
ES 4498G	Engineering Ethics, Sustainable Development and the Law	MME 4480A/B	Fundamentals of MEMS
MSE 4499	Mechatronic Design Project	MME 4492A/B	Production Management for Engineers
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The official version of the academic calendar can be found at: www.westerncalendar.uwo.ca

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