Mechatronic Systems Engineering

September 2025 *(for students who entered first year in September 2022 or later)*

Year 2
Term A
NMM 2270A	Applied Mathematics for Engineering II
ECE 2205A	Electric Circuits I
MSE 2200Q	Engineering Shop Safety Training
MSE 2201A	Introduction to Electrical Instrumentation
MSE 2212A	Mechanics of Materials
MSE 2214A	Thermodynamics
CS 1037A	Computer Science Fundamentals II

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
MSE 2221b	Computational Methods in Mechatronic Systems Engineering

Year 3
Term A
ECE 2277A	Digital Logic Systems
ECE 3330A	Control Systems
MSE 3301A	Materials Selection and Manufacturing Processes
MSE 3310A	Electric Motors and Drives
MSE 3381A	Kinematics and Dynamics of Machines

Term B
ECE 3331B	Signal Processing
ECE 3375B	Microprocessors and Microcomputers
MSE 3302B	Sensors and Actuators
MSE 3360B	Finite Element Methods for Mechatronic Systems Engineering
MSE 3380B	Machine Component Design for Mechatronic Systems
Writ 2130G	Building Better (Communication) Bridges: Rhetoric & Professional Communication for Engineers

One 0.5-credit non-technical elective taken from the approved list

Year 4
Term A
MSE 4401A	Robotic Manipulators
MSE 4499	Mechatronic Design Project
SS 2141A	Applied Probability and Statistics for Engineers
ELI 4110F	Engineering Ethics, Sustainable Development & the Law

Two 0.5-credit technical electives

Term B
MSE 4499	Mechatronic Design Project
ECE 4460B	Real Time and Embedded Systems
ECE 4469B	Applied Control Systems

Two 0.5-credit non-technical electives taken from the approved list
One 0.5-credit technical elective

NOTES:

Important:
Students are responsible for ensuring they have the correct courses required for their degree. If you are unsure which courses you still need or if you see courses listed on the progression sheet that are no longer offered or are not offered in the term you see listed here, please contact your Academic Counsellor.

*Non-technical Electives:

http://www.eng.uwo.ca/undergraduate/upper_year/electives.html

Technical Electives
Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.

ECE 3380A/B	Advanced Digital Systems
ECE 4429A/B	Advanced Digital Signal Processing
ECE 4438A/B	Advanced Image Processing and Analysis
ECE 4445A/B	Introduction to Digital Image Processing
ECE 4455A/B	Biomedical Systems Analysis
ECE 4468A/B	Systems Optimization
MME 4424A/B	Mechanical Properties of Materials
MME 4425A/B	Mechanical Vibrations
MME 4459A/B	Advanced CAE: Manufacturing Technologies
MME 4469A/B	Biomechanics of the Musculoskeletal System
MME 4470A/B	Medical and Assistive Devices
MME 4473A/B	Computer Integrated Manufacturing
MME 4480A/B	Advanced CAE: Reverse Engineering
MME 4482A/B	Fundamentals of MEMS
MME 4492A/B	Production Management for Engineers