

## Mechanical Engineering 2020-2021

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Year	Course	Course	Course	Course	Course	Course
1-1	COMM 1050U Technical Communications	ENGR 1015U Introduction to Engineering	MATH 1010U Calculus I	MATH 1850U Linear Algebra for Engineers	PHY 1010U Physics I	
1-2	CHEM 1800U Chemistry for Engineers (Credit restrictions: CHEM 1010U/ CHEM 1020U/CHEM 1110U)	ENGR 1025U Engineering Design (ENGR 1015U)	ENGR 1200U Introduction to Programming for Engineers (Credit Restriction: INFR 1100U)	MATH 1020U Calculus II (MATH 1010U)	PHY 1020U Physics II (PHY 1010U)	SSCI 1470U Impact of Science and Technology on Society
2-1	MANE 2220U Structure and Properties of Materials (CHEM 1800U)	MATH 2860U Differential Equations for Engineers (MATH 1020U, Coreq: MATH 1850U)	MECE 2230U Statics (MATH 1020U, PHY 1010U)	MECE 2310U Concurrent Engineering and Design (ENGR 3200U or ENGR1025U)	MECE 2320U Thermodynamics (PHY 1010U)	
2-2	ELEE 2790U Electric Circuits (MATH 1020U, MATH 1850U, PHY 1020U)	MATH 2070U Numerical Methods (MATH 1020U, MATH 1850U or MATH 2050U)	MECE 2420U Solid Mechanics I (MECE 2230U)	MECE 2430U Dynamics (MATH 1850U, MECE 2230U)	MECE 2860U Fluid Mechanics (PHY 1010U, MATH 1020U)	STAT 2800U Statistics and Probability for Engineers (MATH 1020U)
3-1	MANE 3190U Manufacturing and Production Processes (MANE 2220U)	MECE 3030U Computer-Aided Design (MECE 2310U, MECE 2420U)	MECE 3270U Kinematics and Dynamics of Machines (MECE 2430U or ENGR 2020U)	MECE 3350U Control Systems (ELEE 2790U or ELEE 2210U, MATH 2860U)	MECE 3420U Solid Mechanics II (MECE 2420U)	Liberal Studies Elective **
3-2	ENGR 3360U Engineering Economics	MECE 3210U Mechanical Vibrations (MECE 2430U or ENGR 2020U)	MECE 3220U Machine Design (MECE 3270U, MECE 2310U, MECE 2420U)	MECE 3230U Thermodynamic Applications (MECE 2320U, MECE 2640U)	MECE 3390U Mechatronics (MECE 3270U, MECE 3350U)	MECE 3930U Heat Transfer (MECE 2320U or NUCL 2010U or MECE 2640U)
4-1	ENGR 4760U Ethics, Law and Professionalism for Engineers	ENGR 4950U Capstone Systems Design for Mechanical, Automotive, Mechatronics and Manufacturing Engineering I (Successful completion of all non-elective courses in year three)	MECE 4290U Finite Element Methods (ENGR 2420U or MECE 2420U or ENGR 3030U or MECE 3030U)	MECE 4210U Advanced Solid Mechanics and Stress Analysis (MECE 3420U)	Engineering Elective	Liberal Studies Elective **
4-2	ENGR 4951U Capstone Systems Design for Mechanical, Automotive, Mechatronics and Manufacturing Engineering II (ENGR 4950U)	Engineering Elective	Engineering Elective	Engineering Elective		

\*\*A list of approved Liberal Studies Electives can be found on [engineering.ontariotechu.ca](http://engineering.ontariotechu.ca)