



FALL

CHEM*1040
General Chemistry

ENGG*1410
Introductory Programming for Engineers

ENGG*1100
Engineering & Design I

MATH*1200
Calculus I

PHYS*1130
Physics with Applications

COOP*1100
Intro to Co-op Education
(On-line course 0.00 Credits)

RESTRICTED ELECTIVES
0.50 Credits

CIS*2520
Data Structures

ENGG*2230
Fluid Mechanics

ENGG*2400
Engineering Systems Analysis

ENGG*2410
Digital Systems Using Descriptive Languages

MATH*2270
Differential Equations

ENGG*4450
Large-Scale Software Architecture Engineering

ENGG*3390
Signal Processing

ENGG*3450
Electronic Devices

ENGG*3260
Thermodynamics

ENGG*3640
Microcomputer Interfacing

RESTRICTED ELECTIVES
0.5 Credits

ENGG*3240
Engineering Economics

ENGG*4420
Real-time Systems Design

RESTRICTED ELECTIVES
1.50 or 1.75 Credits

COOP WORK TERM

ENGG*4000
Proposal for ENGG*4120
(On-line course 0.00 Credits)

WINTER

ENGG*1420
Object-Oriented Programming for Engineers

ENGG*1210
Engineering Mechanics I

ENGG*1500
Engineering Analysis

PHYS*1010
Introductory Electricity & Magnetism

MATH*1210
Calculus II

ENGG*2100
Engineering & Design II

ENGG*2120
Material Science

ENGG*2450
Electric Circuits

STAT*2120
Stats for Engineers

MATH*2130
Numerical Methods

RESTRICTED ELECTIVES
0.50 Credits

ENGG*3100
Engineering & Design III

ENGG*3130
Modeling Complex Systems

ENGG*3410
Systems & Control Theory

ENGG*3430
Heat and Mass Transfer

HIST*1250
Science & Technology in a Global Context

RESTRICTED ELECTIVES
0.50 Credits

ENGG*3100
Engineering & Design III

ENGG*3130
Modeling Complex Systems

ENGG*3410
Systems & Control Theory

ENGG*3430
Heat and Mass Transfer

HIST*1250
Science & Technology in a Global Context

RESTRICTED ELECTIVES
0.50 Credits

ENGG*4120
Computer Eng. Design IV

ENGG*4490
Sampled Data Control Design

RESTRICTED ELECTIVES
1.00 or 1.25 Credits

SUMMER

COOP WORK TERM

COOP WORK TERM

COOP WORK TERM

TITLE
2021-2022 ENGINEERING SYSTEMS & COMPUTING PROGRAM MAP, CO-OP

LEGEND
PREREQUISITE →
COREQUISITE →

REVISED
06-07-2022

NOTES
1. ADVISING TOOL ONLY. REFER TO CALENDAR FOR OFFICIAL PROGRAM REQUIREMENTS AND COURSE PREREQUISITES