Queen's ECE CMPE Prerequisites/Corequisites

APSC 112 Electricity and Magnetism
APSC 142 Intro. to Comp. Programming
APSC 171 Calculus I
APSC 172 Calculus II
APSC 174 Intro. to Linear Algebra

ELEC 221 Electric Circuits
ELEC 271 Digital Systems
ELEC 278 Fund. of Info. Structures
MTHE 235 Differential Equations
ELEC 273 Num. Meth. & Optimiz.

ELEC 279 Intro to Object-Oriented Progr.
ELEC 252 Electronics I
ELEC 274 Computer Architecture
ELEC 280 Fund. of Electromag.
ELEC 299 Mechatronics Project

CMPE 365 Algorithms I
CMPE 425 Machine Learning and Deep Learning
ELEC 326 Prob. & Rand. Processes
ELEC 371 Micro. Inter. & Embed. Sys.
ELEC 377 Operating Systems

CMPE 223 Software Specifications
CMPE 320 Fund. of Soft. Development
ELEC 373 Computer Networks
ELEC 374 Digital Systems Eng.

CMPE 323 Cont.-Time Signals & Sys.
ELEC 324 Dis.-Time Signals & Sys.
ELEC 344 Sensors & Actuators
ELEC 353 Electronics II
ELEC 408 Biomed. Sig. & Image Proc.
ELEC 409 Bioinformat. Analytics

ELEC 321 DSP: Filters & Sys. Design
ELEC 422 DSP: Rand. Mod. & App.
ELEC 431 Power Electronics
ELEC 443 Linear Cont. Systems

ELEC 415 Dig. Integr. Cir. Eng.
ELEC 461 Digital Communicat.
ELEC 464 Wireless Communicat.
ELEC 470 Computer Sys. Architecture
ELEC 474 Machine Vision

ELEC 425 Machine Learning and Deep Learning

1st Year APSC
2nd Year CE CORE
3rd Year CE CORE
CE Optional CORE
CE Tech Elective List A
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