Updated July 12, 2024

Queen's UNIVERSITY COMPUTING

Software Design

BComp (Hons) *SODE-P-BCH*

69 core units
39 option units
12 elective units

SSP

120 units total

YEAR 1

YEAR 2

YEAR 3

YEAR 4

CISC 110 Creative Computing
OR
CISC 101 Elements of Computing Sci.
OR
ISC4U

CISC 121 Introduction to Computing Sci. I

MATH
CISC 102

CISC 124 Introduction to Computing Sci. II

CISC 102 Discrete Math. I

MATH 110 Linear Algebra
OR
MATH 112 Intro to Linear Algebra

4U Math
MHF4U and **MCV4U**

MATH 120 OR **MATH 121** OR (**MATH 123** AND **MATH 124**) Differential and Integral Calculus

CISC 220 System-Level Programming

CISC 203 Discrete Math. II

CISC 204 Logic

STAT 263 Introduction to Statistics

CISC 221 Computer Architecture

CISC 235 Data Structures

CISC 223 Software Specifications

CISC 324 Operating Systems

CISC 360 Programming Paradigms

CISC 322 Software Architecture
OR
CISC 226
CISC 326 Game Architecture

CISC 365 Algorithms I

CISC 325 Human-Computer Inter.

CISC 327 Software Quality Assurance

ADDITIONAL REQUIREMENTS:

- 9 units from **SOFT_Design*** with at least 3 at the 400-level or above
- **WRIT 125** OR **WRIT 175** OR **PHIL 259**
- **COMM 200** OR **COMM 251** OR **APSC 221**
- 3 units in Humanities, Languages, or Social Sciences
- 18 units courses **outside of** Math (**MATH/STAT**), Computing (**CISC/COCA/COGS**), and Engineering (**APSC/ELEC**)

CISC/SOFT 423 Software Requirements

OR

CISC 498 Information Technology Project

CISC 422 Formal Methods

CISC 497 Social, Ethical and Legal Issues

*See academic calendar for option lists.

REQUIRED CHOICE
PREREQUISITE COREQUISITE RECOMMENDED

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