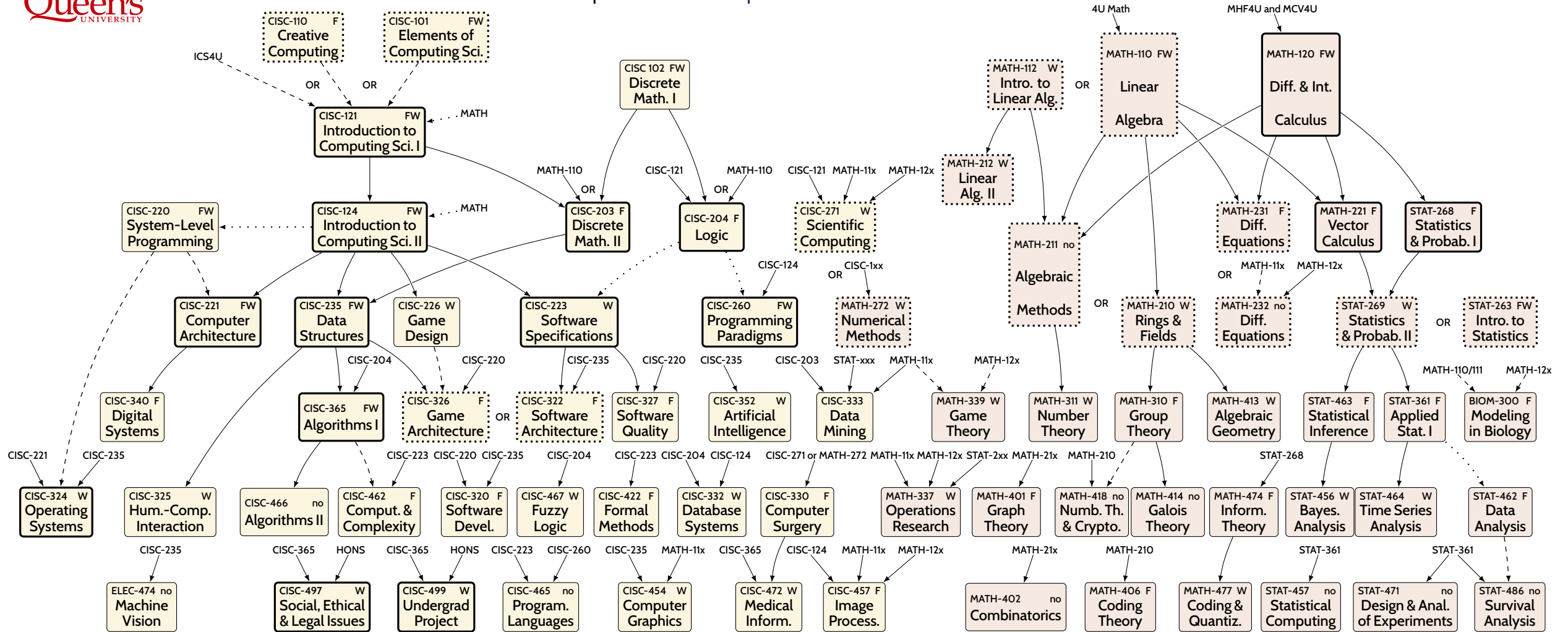




COMPUTING AND MATHEMATICS (COMA-P-BCH) 2018-19

This specialization is offered by the School of Computing in cooperation with the Department of Mathematics and Statistics.



- All courses shown are 3.0 units, except for MATH 110/6.0, MATH 120/6.0, and MATH 211/6.0. HONS indicates Level 4 with an overall GPA of 1.90 and a GPA of 2.60 in 30.0 units of CISC.
- A solid arrow \longrightarrow indicates a required prerequisite, a dotted arrow $\cdots \rightarrow$ indicates a corequisite (may be taken before or concurrently), and a dashed arrow $-\ - \rightarrow$ indicates a recommended prerequisite. Indirect prerequisites are not shown.
- A high-school programming course (or equivalent experience) may be used in lieu of CISC 101 or CISC 110 as a prerequisite to CISC 121. MATH 111 (or MATH-112 and MATH-212) and MATH 121 may be used in lieu of MATH 110 and MATH 120, respectively.

- Core courses are in **bold** boxes; alternatives are in **dotted** boxes; other courses (i.e., options or prerequisites) are in **light** boxes. CISC 499 is not required for students registered in a Professional Internship. CISC 500/6.0 (Undergraduate Thesis) may be substituted for CISC 499/3.0. Click in any course box to see its description.
- Timetabling abbreviations: F=fall, W=winter, FW=fall and/or winter. no=not offered in 2018-19.

Revised August 4, 2021

<http://www.cs.queensu.ca/students/undergraduate/prerequisites/COMA18.pdf>