Queen's Computing
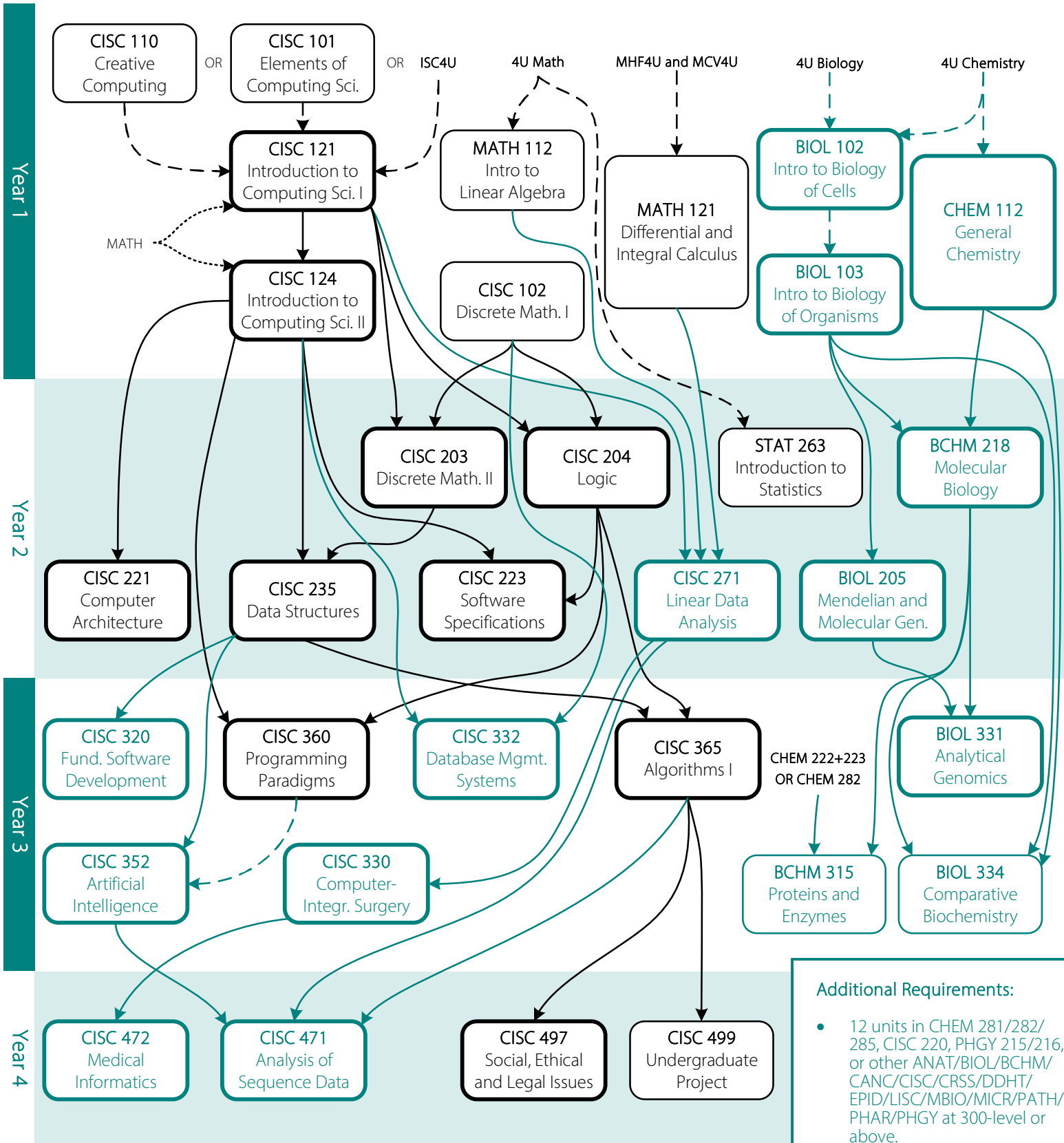### SCHOOL OF
Biomedical Computing   SSP

BComp (Hons) *BMCO-P-BCH*
93 core units
12 option units
15 elective units
_____
120 units total

Year 1

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

CISC 121 — Introduction to Computing Sci. I

MATH 112 — Intro to Linear Algebra — 4U Math

MATH 121 — Differential and Integral Calculus — MHF4U and MCV4U

BIOL 102 — Intro to Biology of Cells — 4U Biology

CHEM 112 — General Chemistry — 4U Chemistry

CISC 124 — Introduction to Computing Sci. II

MATH (recommended)

CISC 102 — Discrete Math. I

BIOL 103 — Intro to Biology of Organisms

Year 2

CISC 203 — Discrete Math. II

CISC 204 — Logic

STAT 263 — Introduction to Statistics

BCHM 218 — Molecular Biology

CISC 221 — Computer Architecture

CISC 235 — Data Structures

CISC 223 — Software Specifications

CISC 271 — Linear Data Analysis

BIOL 205 — Mendelian and Molecular Gen.

Year 3

CISC 320 — Fund. Software Development

CISC 360 — Programming Paradigms

CISC 332 — Database Mgmt. Systems

CISC 365 — Algorithms I

CHEM 222+223 OR CHEM 282

BIOL 331 — Analytical Genomics

CISC 352 — Artificial Intelligence

CISC 330 — Computer-Integr. Surgery

BCHM 315 — Proteins and Enzymes

BIOL 334 — Comparative Biochemistry

Year 4

CISC 472 — Medical Informatics

CISC 471 — Analysis of Sequence Data

CISC 497 — Social, Ethical and Legal Issues

CISC 499 — Undergraduate Project

Additional Requirements:

- 12 units in CHEM 281/282/285, CISC 220, PHGY 215/216, or other ANAT/BIOL/BCHM/CANC/CISC/CRSS/DDHT/EPID/LISC/MBIO/MICR/PATH/PHAR/PHGY at 300-level or above.

Legend:
REQUIRED   CHOICE
PREREQUISITE →   COREQUISITE ·····►   RECOMMENDED ‑ ‑ ►

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