Biomedical Computing – Specialization (Computing) – Bachelor of Computing (Honours)

BMCO-P-BCH (Biomedical Computing)
BMCO-I-BCH (Biomedical Computing with Professional Internship)

Subject: Administered by the School of Computing in cooperation with the Departments of Biology, Chemistry, and Biochemistry.

Plan: Consists of 105.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Computing (Honours) Degree.

1. CORE COURSES (96.0 units)
   A. 6.0 units in CISC 121/3.0 and CISC 124/3.0
   B. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   C. 6.0 units in CHEM 112/6.0
   D. 6.0 units from (CISC 102/3.0 and MATH 112/3.0) or (CISC 102/3.0 and MATH 111/6.0) or MATH 110/6.0
   E. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 120/6.0
   F. 3.0 units in STAT 263/3.0
   G. 24.0 units in CISC 203/3.0, CISC 204/3.0, CISC 220/3.0, CISC 221/3.0, CISC 223/3.0, CISC 235/3.0, CISC 260/3.0, CISC 271/3.0
   H. 3.0 units in BIOL 205/3.0
   I. 3.0 units from BCHM 218/3.0 or MBIO 218/3.0
   J. 15.0 units in CISC 320/3.0, CISC 330/3.0, CISC 332/3.0, CISC 352/3.0, CISC 365/3.0
   K. 3.0 units from BIOL 334/3.0 or BCHM 315/3.0
   L. 3.0 units in BIOL 331/3.0
   M. 6.0 units in CISC 471/3.0, CISC 472/3.0
   N. 3.0 units in CISC 497/3.0
   O. 3.0 units from CISC 499/3.0 or CISC 500/6.0

2. OPTION COURSES (9.0 units)
   A. 9.0 units from BMCO_Options

3. SUPPORTING COURSES (0.0 units)
   (none)
4. SUBSTITUTIONS
A. Students in the internship version of this Plan will substitute 3.0 units from COMP at the 300 level for requirement 1-O (CISC 499/3.0). In addition, the B.Cmp.(Hons.) Program requirements will be increased by 6.0 units from COMP at the 300 level, for a total of 126.0 units, if the student is taking a 12-month internship or by 9.0 units from COMP at the 300 level, for a total of 129.0 units, if the student is taking a 16-month internship.

5. NOTES
A. Those students with no programming experience should review first year course choices based on the Section on Introductory Courses at the start of the chapter on Computing.

B. ELEC courses are offered by the Faculty of Engineering and Applied Science. Special permission may be required to register. All such courses will count as 3.0 units towards degree requirements in Arts and Science.

The following lists contain courses offered through other Departments. In accordance with Academic Regulation 2.5 (Access to Classes), students do not have enrolment priority in all of these courses. Access to these courses may only be made available during the Open Enrolment period, and then only if space permits.

BMCO_Options

*Options in the Biomedical Computing Plan*
CHEM 281/3.0; CHEM 282/3.0; CHEM 285/3.0; PHGY 214/6.0;
(ANAT; BIOL; BCHM; CANC; CISC; CISC_Subs; CRSS; DDHT; EPID; LISC; MBIO; MICR;
PATH; PHAR; PHGY; SOFT) at the 300 level or above

CISC_Subs

*Courses in other departments usable as CISC options*
COMM 365/3.0; ELEC 470/3.0; ELEC 471/3.0; ELEC 474/3.0; ELEC 476/3.0; ELEC 478/3.0;
MATH 272/3.0; MATH 337/3.0; MATH 401/3.0; MATH 402/3.0; MATH 434/3.0; MATH 474/3.0