Cognitive Science – Specialization (Computing) – Bachelor of Computing (Honours)

COGS-P-BCH (Cognitive Science)
COGS-I-BCH (Cognitive Science with Professional Internship)

Subject: Administered by the School of Computing in cooperation with the Departments of Linguistics, Philosophy and Psychology

Plan: Consists of 96.0 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 (54.0 units)
   A. 6.0 units in CISC 121/3.0 and CISC 124/3.0
   B. 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
   C. 3.0 units in COGS 100/3.0
   D. 3.0 units in COGS 201/3.0
   E. 15.0 units in CISC 203/3.0, CISC 204/3.0, CISC 221/3.0, CISC 235/3.0, CISC 260/3.0
   F. 3.0 units in STAT 263/3.0
   G. 6.0 units in CISC 352/3.0 and COGS 300/3.0
   H. 3.0 units in CISC 453/3.0
   I. 3.0 units in COGS 400/3.0 or CISC 452/3.0
   J. 3.0 units in CISC 497/3.0
   K. 3.0 units from COGS 499/3.0 or CISC 500/6.0

2. Option (42.0 units)
   A. 30.0 units from two of Option Lists 2Ai; 2Aii; 2Aiii
      i. Linguistics (15.0 units)
         a. 6.0 units in LING 100/6.0
         b. 3.0 units from LING 310/3.0; LING 320/3.0; LING 330/3.0
         c. 3.0 units in LING 340/3.0
         d. 3.0 units in LING 415/3.0
      ii. Philosophy (15.0 units)
         a. 6.0 units from PHIL 111/6.0 or PHIL 115/6.0
         b. 6.0 units in PHIL 250/6.0
         c. 3.0 units from PHIL 154/3.0; PHIL 261/3.0; PHIL 270/3.0; PHIL 311/3.0; PHIL 351/3.0; PHIL 359/3.0; PHIL 381/3.0
iii. Psychology (15.0 units)
   a. 6.0 units in PSYC 100/6.0
   b. 3.0 units in PSYC 221/3.0
   c. 3.0 units from PSYC 203/3.0; PSYC 215/3.0; PSYC 271/3.0
   d. 3.0 units from COGS_Psychology at the 300 level or above.

B. 6.0 units from COGS_Computing
C. 6.0 units from COGS_Computing; COGS_Linguistics; COGS_Philosophy; COGS_Psychology; NSCI 401/3.0

3. Supporting (0.0 units)

4. Additional Requirements

(none)

5. Substitutions
A. Students may be permitted to substitute PSYC 501/9.0 for COGS 499/3.0 and 6.0 additional units of the program, provided they have taken PSYC 203/3.0 and PSYC 300/6.0, meet the minimum grade requirements for PSYC 501/9.0, and have the support of a supervisor in PSYC.

B. Students in the internship version of this Plan will substitute 3.0 units from COMP at the 300 level for requirement 1-K (COGS 499/3.0 or CISC 500/6.0). 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.

6. 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. As COGS is a multi-disciplinary subject, several first year courses are required. With the exception of CISC 121/3.0 and MATH 111/6.0, 100-level courses may be deferred to later years depending upon the planned progression of subsequent courses. With approval of an advisor, COGS 100/3.0 may be taken in Year 2 of the program.

C. Many upper-year courses in CISC, LING, PHIL and PSYC have prerequisites outside the courses required for COGS, and students should take this into account in planning for their optional and elective units. Not all upper year courses are offered every year.

D. The program allows 24.0 units for elective courses. Many disciplines are narrowly focused, and electives are essential to allow students to broaden their education. In the case of COGS, the program is already very broad, and students are encouraged to use their electives to further pursue the area(s) of Cognitive Science in which they are most interested.
COGS_Computing

Cognitive Science Computing Options
CISC 220/3.0; CISC 223/3.0; CISC 325/3.0; CISC 340/3.0; CISC 365/3.0; CISC 425/3.0; CISC 454/3.0; CISC 465/3.0; CISC 481/3.0; SOFT 325/3.0; SOFT 425/3.0

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.

COGS_Linguistics

Cognitive Science Linguistics Options
LING 100/6.0; LING 310/3.0; LING 320/3.0; LING 330/3.0; LING 340/3.0; LING 415/3.0

COGS_Philosophy

Cognitive Science Philosophy Options
PHIL 111/6.0; PHIL 115/6.0; PHIL 154/3.0; PHIL 170/3.0; PHIL 250/6.0; PHIL 261/3.0; PHIL 270/3.0; PHIL 311/3.0; PHIL 351/3.0; PHIL 359/3.0; PHIL 381/3.0

COGS_Psychology

Cognitive Science Psychology Options
PSYC 100/6.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 251/3.0; PSYC 271/3.0; PSYC 272/3.0; PSYC 300/6.0; PSYC 305/6.0; PSYC 321/3.0; PSYC 322/3.0; PSYC 323/3.0; PSYC 352/3.0; PSYC 355/3.0; PSYC 365/3.0; PSYC 370/3.0; PSYC 380/3.0; PSYC 385/3.0; PSYC 420/3.0; PSYC 422/3.0; PSYC 423/3.0; PSYC 452/3.0; PSYC 457/3.0; PSYC 490/3.0