



Software Engineering with Business

Department of Electrical and Computer Engineering

This combined program allows exceptional students interested in the management of computer and software companies to pursue an education both in Software Engineering in the Department of Electrical and Computer Engineering and in Business Administration in the Richard Ivey School of Business. Many of today's business leaders and industrial executives have built their careers by combining an engineering degree with a degree in business. This combination develops outstanding entrepreneurship skills and offers excellent employment opportunities, especially in the fast growing sector of small to medium sized companies. The program requires only five academic years rather than the usual six years it takes to complete both degrees separately.

Admission and Program Structure

Normally students apply to the Ivey Business School during their second year in Engineering. Students applying to the Ivey Advanced Entry Opportunity (Ivey AEO) are also eligible to be considered for the combined program. Admission to the program is competitive and limited. During the HBA 1 year students apply to the combined Engineering and Business program. Upon completion of the five year program students will receive two degrees: a Bachelor of Engineering Science degree and a BA in Honors Business Administration.

To be eligible for the concurrent program, all students, including those admitted via the AEO route, must have completed all the requirements of the first year curriculum in the Faculty of Engineering and the second year program in Option B in the Software Engineering program. Students must obtain a weighted average (YWA) of 78% in each year. During the second year of the program students are required to complete Business 2257 with a minimum grade of 70%. Engineering students may take Business 2257 during Intersession either after their first or second year. Demonstrated participation in extra curricular and/or community activities, leadership and work experience are also admission criteria.

Students in this combined program must meet the following progression standards: Students enrolled in first year HBA (Year 3) must attain at least 78%. In Years 4 and 5, students must attain a minimum weighted average of 75% in their 4000-level HBA courses and a 75% average in their Engineering courses.

***Note:** Students who are not admitted to the HBA program after second year must complete Eng Sci 2211F/G before graduation. Therefore, students may opt to take the full second year Software program and take Business 2257 in the summer preceding or following second year at Intersession. Business 2257 will count as the third year non-technical elective for students who continue solely in the Software Engineering program.

First year program (2010-2011): Applied Math 1413, Eng Sci 1050, Physics 1026, Applied Math 1411a/b, Chemistry 1024a/b, Eng Sci 1021a/b, Eng Sci 1022a/b/y, Eng Sci 1036a/b, 1.0 non-technical elective.

Second year program (2011-2012): Applied Math 2415, SE 2250a, SE 2251a, ECE 2277a, Comp Sci 1037a, Stat Sci 2141a, SE 2203b, SE 2205b, ECE 2238b, 0.5 Science elective from the approved list, Business 2257*. (*See note above).

Third year program (2012-2013): HBA 1.

Fourth year program (2013-2014): SE 3309a, SE 3313a, SE 3316a, SE 3352a, ECE 4436a, SE 3310b, SE 3314b, SE 3351b, SE 3353b, ECE 3375b, SE 3350y, Business 4410 or 4430.

Fifth year program (2014-2015): SE 4450, SE 4452a, SE 4472a, SE 4453b, Eng Sci 4498G, Business 4505a, Business 4521a or 4522a or 4523a, Business electives totalling 2.0 (selected from the 4000-level courses in the HBA program).