

← Declaration of major

| School: | | | School of Engineering and School of Business Management | | | | Student's Pathway | | | | | | | | | |
|---|-------------|---|---|-------------|---------------|-------------|-------------------|-------------|---------------|-------------|---------------|-------------|---------------|-----------|--|--|
| Program: | | | Dual Degree Program (BEng in Computer Engineering and BBA in General Business Management) | | | | | | | | | | | | | |
| Course Offering Dept. (course code prefix) | Course Code | Course Title / Courses List | Credits | Year 1 Fall | Year 1 Spring | Year 2 Fall | Year 2 Spring | Year 3 Fall | Year 3 Spring | Year 4 Fall | Year 4 Spring | Year 5 Fall | Year 5 Spring | Sub-total | | |
| BEng in Computer Engineering | | | | | | | | | | | | | | | | |
| Major Requirements | | | | | | | | | | | | | | | | |
| Engineering Fundamental Courses | | | | | | | | | | | | | | | | |
| COMP | 1021 | Note: COMP1021 OR COMP1022P OR COMP1022Q Introduction to Computer Science | 3 | | | | | | | | | | | 3 | This course will also be used to substitute ISOM 2010 | |
| COMP | 1022P | Introduction to Computing with Java | 3 | | | | | | | | | | | | | |
| COMP | 1022Q | Introduction to Computing with Excel VBA | 3 | | | | | | | | | | | | | |
| ENGG | 1010 | Academic Orientation | 0 | 0 | 0 | | | | | | | | | 0 | | |
| LANG | 2030 | Technical Communication I | 3 | | | | 3 | | | | | | | 3 | | |
| MATH | 1012 | Note: (MATH1012 OR MATH1013 OR MATH1020) AND (MATH1014 OR MATH1020) OR (MATH1020) | 4 | | | | | | | | | | | | | |
| MATH | 1013 | Calculus IA | 4 | | | | | | | | | | | | | |
| MATH | 1014 | Calculus IB | 3 | | 3 | | | | | | | | | 6 | | |
| MATH | 1020 | Accelerated Calculus | 4 | | | | | | | | | | | | | |
| MATH | 1023 | Honors Calculus I | 3 | | | | | | | | | | | | | |
| MATH | 1024 | Honors Calculus II | 3 | | | | | | | | | | | | | |
| MATH | 2011 | Introduction to Multivariable Calculus | 3 | | | | | 3 | | | | | | 3 | | |
| MATH | 2111 | Matrix Algebra and Applications | 3 | | | | | 3 | | | | | | 3 | | |
| PHYS | 1112 | Note: PHYS1112 OR PHYS1312 General Physics I with Calculus | 3 | 3 | | | | | | | | | | 3 | | |
| PHYS | 1312 | Honors General Physics I | 3 | | | | | | | | | | | | | |
| PHYS | 1114 | Note: PHYS1114 OR PHYS1314 General Physics II | 3 | | | | | 3 | | | | | | 3 | | |
| PHYS | 1314 | Honors General Physics II | 3 | | | | | | | | | | | | | |
| SENG | | Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.) | 3-4 | (3) | | | | | | | | | | 0 | | |
| Required credits for Engineering Fundamental Courses | | | 25-29 | | | | | | | | | | | 24 | | |
| Major Required Courses and Electives | | | | | | | | | | | | | | | | |
| CPEG | 2930 | Academic and Professional Development I | 0 | | | 0 | 0 | | | | | | | 0 | | |
| CPEG | 3930 | Academic and Professional Development II | 0 | | | | | 0 | 0 | | | | | 0 | | |
| COMP | 2011 | Note: (COMP2011 AND COMP2012) OR COMP2012H Programming with C++ | 5-8 | | | | | | | | | | | | | |
| COMP | 2012 | Object-Oriented Programming and Data Structures | 4 | | | 4 | | | | | | | | 8 | | |
| COMP | 2012H | Honors Object-Oriented Programming and Data Structures | 5 | | | | | | | | | | | | | |
| COMP | 2611 | Note: COMP2611 OR ELEC2350 Computer Organization | 4 | | | | 4 | | | | | | | 4 | | |
| ELEC | 2350 | Introduction to Computer Organization and Design | 4 | | | | | | | | | | | | | |
| COMP | 2711 | Note: COMP2711 OR COMP2711H OR ELEC 2600 Discrete Mathematical Tools for Computer Science | 4 | | | | | | | 4 | | | | 4 | | |
| COMP | 2711H | Honors Discrete Mathematical Tools for Computer Science | 4 | | | | | | | | | | | | | |
| ELEC | 2600 | Probability and Random Processes in Engineering | 4 | | | | | | | | | | | | | |
| COMP | 3511 | Operating Systems | 3 | | | | | | | | 3 | | | 3 | | |
| COMP | 4521 | Note: (COMP4521 OR COMP4611 OR ELEC4310) Mobile Application Development | 3 | | | | | | | | | | | | | |
| COMP | 4611 | Design and Analysis of Computer Architectures | 3 | | | | | | | | | | | | | |
| ELEC | 4310 | Embedded System Design | 4 | | | | | | | | | 3 | | 3 | | |
| ELEC | 4320 | FPGA-based Design: From Theory to Practice | 3 | | | | | | | | | | | | | |
| ELEC | 4330 | Mobile Embedded Systems: Hardware Platform, Software Development, and Applications | 3 | | | | | | | | | | | | | |
| CPEG | 1971 | Note: (CPEG1971 OR CPEG4910) Industrial Experience | 0 | | | | | | | | | | | | | |
| CPEG | 4901 | Computer Engineering Final Year Project in COMP | 6 | | | | | | | | | 3 | 3 | 6 | | |
| CPEG | 4902 | Computer Engineering Final Year Thesis in COMP | 6 | | | | | | | | | | | | | |
| CPEG | 4911 | Computer Engineering Final Year Project in ELEC | 6 | | | | | | | | | | | | | |
| CPEG | 4912 | Computer Engineering Final Year Thesis in ELEC | 6 | | | | | | | | | | | | | |
| CPEG | 4910 | Co-op Program | 6 | | | | | | | | | | | | | |
| ELEC | 1100 | Introduction to Electro-Robot Design | 4 | | | 4 | | | | | | | | 4 | | |
| ELEC | 1200 | Note: ELEC1200 OR ELEC2100 OR ELEC2400 (2 courses out of 3) A System View of Communications: from Signals to Packets | 8 | | | | | | | | | | | | | |
| ELEC | 2100 | Signals and Systems | 4 | | | | 4 | | | | | | | 8 | | |
| ELEC | 2400 | Electronic Circuits | 4 | | | | | 4 | | | | | | 4 | | |
| ELEC | 3300 | Introduction to Embedded Systems | 4 | | | | | | | | 4 | | | 4 | | |
| ENGG | 2010 | Engineering Seminar Series | 0 | | 0 | 0 | 0 | 0 | | | | | | 0 | | |
| LANG | 4030 | Note: LANG4030 OR CRTC4031 Technical Communication II for CSE & CPEG | 3 | | | | | | | | | 3 | | 3 | | |
| LANG | 4031 | Technical Communication II for ECE & CPEG | 3 | | | | | | | | | | | | | |
| COMP/ELEC | | Area Courses (At least 4 courses from the specified elective list, of which at least 2 courses should be taken from one single area and at least 2 courses outside that area. Courses taken as Major Required Courses may not be counted towards the elective requirement.) | 15 | | | 3 | | | | | 4 | 4 | 4 | 15 | | |
| Required credits for Major Requirements Courses and Electives | | | 59-63 | | | | | | | | | | | 62 | | |
| BBA in General Business Management | | | | | | | | | | | | | | | | |
| School Requirements | | | | | | | | | | | | | | | | |
| ACCT | 2010 | Principles of Accounting I | 3 | | | 3 | | | | | | | | 3 | | |
| ACCT | 2200 | Principles of Accounting II | 3 | | | | | | 3 | | | | | 3 | | |
| ECON | 2103 | Note: ECON 2103 OR ECON 2113 Principles of Microeconomics | 3 | | | 3 | | | | | | | | 3 | | |
| ECON | 2113 | Microeconomics | 3 | | | | | | | | | | | | | |
| ECON | 2123 | Note: ECON 2123 OR ECON 3123 Macroeconomics | 3 | | | | | 3 | | | | | | 3 | | |
| ECON | 3123 | Macroeconomic Theory I | 3 | | | | | | | | | | | | | |
| FINA | 2303 | Financial Management | 3 | | | 3 | | | | | | | | 3 | | |
| ISOM | 2010 | Introduction to Information Systems | 3 | | | | | | | | | | | 0 | Substituted by COMP 1021/1022P/1022Q | |
| ISOM | 2020 | Coding for Business | 1 | | | | | 1 | | | | | | 1 | | |
| ISOM | 2500 | Business Statistics | 3 | | | 3 | | | | | | | | 3 | | |
| ISOM | 2600 | Introduction to Business Analytics | 1 | | | | | 1 | | | | | | 1 | | |
| ISOM | 2700 | Operations Management | 3 | | | | | | 3 | | | | | 3 | | |
| MARK | 2120 | Marketing Management | 3 | | | 3 | | | | | | | | 3 | | |
| MGMT | 2010 | Business Ethics and the Individual | 2 | | | | | 2 | | | | | | 2 | | |
| MGMT | 2110 | Organizational Behavior | 3 | | | | | 3 | | | | | | 3 | | |
| MGMT | 2130 | Business Ethics and Social Responsibility | 2 | | | | | | | | | 2 | | 2 | | |
| SBMT | 1111 | Business Student Induction | 0 | | | | | | | | | | | 0 | Waived for DDP students | |
| LABU | 2040 | Business Case Analyses | 3 | | | | | | 3 | | | | | 3 | | |
| LABU | 2060 | Effective Communication in Business | 3 | | | | | | | 3 | | | | 3 | | |
| MATH | 1003 | Note: MATH1003 OR MATH1012 OR MATH1013 OR MATH1020 OR MATH1023 Calculus and Linear Algebra | 3-4 | | | | | | | | | | | | | |
| MATH | 1012 | Calculus IA | 4 | | | | | | | | | | | | DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees | |
| MATH | 1013 | Calculus IB | 3 | | | | | | | | | | | | | |
| MATH | 1020 | Accelerated Calculus | 4 | | | | | | | | | | | | | |
| MATH | 1023 | Honors Calculus I | 3 | | | | | | | | | | | | | |
| Required credits for School Requirements | | | 43-44 | | | | | | | | | | | 39 | | |
| Major Requirements | | | | | | | | | | | | | | | | |
| Major Required Courses and Electives | | | | | | | | | | | | | | | | |
| SB&M | | SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.) | 29 | | 6 | | | | 3 | 7 | | 3 | 10 | 29 | | |
| Required credits for Major Required Courses and Electives | | | 29 | | | | | | | | | | | 29 | | |
| Additional Requirements | | | | | | | | | | | | | | | | |
| Requirements for Dual Degree Program | | | | | | | | | | | | | | | | |
| Required Courses | | | | | | | | | | | | | | | | |
| TEMG | 1010 | Technology and Management Professional Activities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| TEMG | 3950 | Case-based Problem Solving | 2 | | 2 | | | | | | | | | 2 | | |
| Required credits for Additional Requirements | | | 2 | | | | | | | | | | | 2 | | |
| University CORE | | | | | | | | | | | | | | | | |
| CORE | C3 - C12 | U CORE - Others | 30 | 6 | 6 | | | | | 9 | 9 | | | 30 | | |
| CORE | C1 & C2 | U CORE - English Language | 6 | 3 | 3 | | | | | | | | | 6 | | |
| Sub-total for University CORE | | | 36 | | | | | | | | | | | 36 | | |
| Term load (excl. free credits) | | | | | | | | | | | | | | | | |
| 18 20 20 20 20 20 19 20 20 20 18 17 | | | | | | | | | | | | | | | | |
| 192## | | | | | | | | | | | | | | | | |
| ← Declaration of major | | | | | | | | | | | | | | | | |
| Notes: () indicates the reuse of the same course to fulfill more than one requirement. --- denotes the course/requirement is either waived or substituted. ## To graduate, students should complete all requirements as specified for DDP. | | | | | | | | | | | | | | | | |
| **Remarks on course(s): | | | | | | | | | | | | | | | | |