

<< Declaration of BEng major << Declaration of BBA major

| School: | | School of Engineering and School of Business Management | | | Student's Pathway | | | | | | | | | | | | Remarks |
|--|-------------|--|--|---------|-------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-----------|----|---------|
| Program: | | Dual Degree Program (BEng in Mechanical Engineering and BBA in Global Business) | | | 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 | | |
| Course Offering Dept. (course code prefix) | Course Code | Course Title / Courses List | | Credits | | | | | | | | | | | | | |
| BEng in Mechanical Engineering | | | | | | | | | | | | | | | | | |
| Major Requirements | | | | | | | | | | | | | | | | | |
| Engineering Fundamental Courses | | | | | | | | | | | | | | | | | |
| COMP | 1021 | Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H | | 3-5 | | | | | | | | | | | | | |
| COMP | 1022P | Introduction to Computer Science | | 3 | | | | | | | | | | | | | |
| COMP | 2011 | Introduction to Computing with Java | | 3 | 3 | | | | | | | | | | | | |
| COMP | 2012H | Programming with C++ | | 4 | | | | | | | | | | | | | |
| COMP | 2012H | Honors Object-Oriented Programming and Data Structures | | 5 | | | | | | | | | | | | | |
| ENGG | 1010 | Academic Orientation | | 0 | 0 | 0 | | | | | | | | | | | |
| LANG | 2030 | Technical Communication I | | 3 | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| MATH | 1012 | Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR (MATH 1020) | | 4-7 | | | | | | | | | | | | | |
| MATH | 1013 | Calculus IA | | 4 | | | | | | | | | | | | | |
| MATH | 1014 | Calculus IB | | 3 | 3 | 3 | | | | | | | | | | | |
| MATH | 1020 | Calculus II | | 3 | | | | | | | | | | | | | |
| MATH | 1023 | Accelerated Calculus | | 4 | | | | | | | | | | | | | |
| MATH | 1024 | Honors Calculus I | | 3 | | | | | | | | | | | | | |
| MATH | 1024 | Honors Calculus II | | 3 | | | | | | | | | | | | | |
| MATH | 2011 | Introduction to Multivariable Calculus | | 3 | | | | 3 | | | | | | | | | |
| MATH | 2111 | Note: MATH2111 OR MATH2350 OR MATH2351 | | 3 | | | | | | | | | | | | | |
| MATH | 2350 | Matrix Algebra and Applications | | 3 | | | | | | 3 | | | | | | | |
| MATH | 2351 | Applied Linear Algebra and Differential Equations | | 3 | | | | | | | | | | | | | |
| MATH | 2351 | Introduction to Differential Equations | | 3 | | | | | | | | | | | | | |
| PHYS | 1112 | Note: PHYS1112 OR PHYS1312 | | 3 | | | | | | | | | | | | | |
| PHYS | 1312 | General Physics I with Calculus | | 3 | | 3 | | | | | | | | | | | |
| PHYS | 1312 | Honors General Physics I | | 3 | | | | | | | | | | | | | |
| CHEMLIFS/PHYS | | Science 1000-level course (Any 1 course of the subject and level as specified) | | 3 | | (3) | | | | | | | | | | | |
| Required credits for Engineering Fundamental Courses | | | | 22-26 | | | | | | | | | | | | 18 | |
| Major Required Courses and Electives | | | | | | | | | | | | | | | | | |
| MECH | 1990 | Industrial Training | | 0 | | | | 0* | 0* | | | | | | | | |
| MECH | 2020 | Statics and Dynamics | | 3 | | | | 3 | | | | | | | | | |
| MECH | 2040 | Solid Mechanics I | | 3 | | | | | | | | | | | | | |
| MECH | 2210 | Fluid Mechanics | | 3 | | | | | | 3 | | | | | | | |
| MECH | 2310 | Thermodynamics | | 3 | | | | 3 | | | | | | | | | |
| MECH | 2410 | Engineering Materials I | | 3 | | | | | | 3 | | | | | | | |
| MECH | 2520 | Design and Manufacturing I | | 3 | | | | | | 3 | | | | | | | |
| MECH | 3030 | Mechanisms of Machinery | | 3 | | | | | | | | | | | | | |
| MECH | 3300 | Note: MECH3300 OR MECH3420 OR MECH3520 OR MECH3710 | | 3 | | | | | | | | | | | | | |
| MECH | 3420 | Energy Conversion | | 3 | | | | | | | | | | | | | |
| MECH | 3520 | Engineering Materials II | | 3 | | | | | | | | | | | | | |
| MECH | 3710 | Design and Manufacturing II | | 3 | | | | | | | | | | | | | |
| MECH | 3710 | Manufacturing Processes and Systems | | 3 | | | | | | | | | | | | | |
| MECH | 3310 | Heat Transfer | | 3 | | | | | | | | | | | | | |
| MECH | 3610 | Control Principles | | 3 | | | | | | 3 | | | | | | | |
| MECH | 3630 | Electrical Technology | | 3 | | | | | | | | | | | | | |
| MECH | 3830 | Laboratory | | 3 | | | | | | | | | | | | | |
| MECH | 3907 | Mechatronic Design and Prototyping | | 3 | | | | | | | | | | | | | |
| MECH | 4900 | Final Year Design Project | | 6 | | | | | | | | | | | | | |
| ELEC | 2420 | Basic Electronics | | 3 | | | | 3 | | | | | | | | | |
| ENGG | 2010 | Engineering Seminar Series | | 0 | | | | 0 | 0 | 0 | 0 | | | | | | |
| LANG | 4034 | Technical Communication II for Mechanical and Aerospace Engineering | | 3 | | | | | | | | | | | | | |
| Required credits for Major Requirements Courses and Electives | | | | 51 | | | | | | | | | | | | 51 | |
| BBA in Global Business | | | | | | | | | | | | | | | | | |
| School Requirements | | | | | | | | | | | | | | | | | |
| ACCT | 2010 | Principles of Accounting I | | 3 | 3 | | | | | | | | | | | | |
| ACCT | 2200 | Principles of Accounting II | | 3 | | | | | | | | | | | | | |
| ECON | 2103 | Note: ECON 2103 OR ECON 2113 | | 3 | | | | 3 | | | | | | | | | |
| ECON | 2113 | Principles of Microeconomics | | 3 | | | | | | | | | | | | | |
| ECON | 2113 | Microeconomics | | 3 | | | | | | | | | | | | | |
| ECON | 2123 | Note: ECON 2123 OR ECON 3123 | | 3 | | | | | | | | | | | | | |
| ECON | 3123 | Macroeconomics | | 3 | | | | | | | | | | | | | |
| ECON | 3123 | Macroeconomic Theory I | | 3 | | | | | | | | | | | | | |
| FINA | 2303 | Financial Management | | 3 | | | | | | | | | | | | | |
| ISOM | 2010 | Introduction to Information Systems | | 3 | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| ISOM | 2020 | Coding for Business | | 1 | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| ISOM | 2500 | Business Statistics | | 3 | 3 | | | | | | | | | | | | |
| ISOM | 2600 | Introduction to Business Analytics | | 1 | | | | | | | | | | | | | |
| ISOM | 2700 | Operations Management | | 3 | | | | | | | | | | | | | |
| MARK | 2120 | Marketing Management | | 3 | | | | | | | | | | | | | |
| MGMT | 2010 | Business Ethics and the Individual | | 2 | | | | | | | | | | | | | |
| MGMT | 2110 | Organizational Behavior | | 3 | | | | | | | | | | | | | |
| MGMT | 2130 | Business Ethics and Social Responsibility | | 2 | | | | | | | | | | | | | |
| SBMT | 1111 | Business Student Induction | | 0 | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| LABU | 2040 | Business Case Analyses | | 3 | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| LABU | 2060 | Effective Communication in Business | | 3 | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| MATH | 1003 | Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 | | 3-4 | | | | | | | | | | | | | |
| MATH | 1012 | Calculus and Linear Algebra | | 3 | | | | | | | | | | | | | |
| MATH | 1013 | Calculus IA | | 4 | | | | | | | | | | | | | |
| MATH | 1013 | Calculus IB | | 3 | | | | | | | | | | | | | |
| MATH | 1020 | Accelerated Calculus | | 4 | | | | | | | | | | | | | |
| MATH | 1023 | Honors Calculus I | | 3 | | | | | | | | | | | | | |
| Required credits for School Requirements | | | | 43-44 | | | | | | | | | | | | 35 | |
| Major Requirements | | | | | | | | | | | | | | | | | |
| Major Required Courses and Electives | | | | | | | | | | | | | | | | | |
| GBUS | 1000 | Global Leadership Development | | 0 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| GBUS | 2010 | Global Business Analysis | | 3 | | | | | | | | | | | | | |
| GBUS | 2020 | Public Service Project | | 1 | | | | | | | | | | | | | |
| GBUS/ISOM | 3030 | Note: GBUS 3030 OR ISOM2040 | | 3-4 | | | | | | | | | | | | | |
| GBUS | 2040 | Global Business Case Studies | | 4 | | | | | | | | | | | | | |
| ISOM | 2040 | Business Simulation and Strategic Decisions | | 3 | | | | | | | | | | | | | |
| GBUS | 4910 | Capstone Project | | 4 | | | | | | | | | | | | | |
| GBUS | | Global Business Electives (Courses from the specified elective list, of which at least 6 credits from each area and at least 2 courses must be offered by GBUS. Courses taken to fulfill requirements of an additional major in SBM may not be counted towards this elective requirement.) | | 15 | | | | | | | | | | | | | |
| Required credits for Major Required Courses and Electives | | | | 26-27 | | | | | | | | | | | | 27 | |
| Additional Requirements | | | | | | | | | | | | | | | | | |
| Requirements for Dual Degree Program | | | | | | | | | | | | | | | | | |
| Required Courses | | | | | | | | | | | | | | | | | |
| TEMG | 1010 | T&M Professional Activities | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| TEMG | 3950 | T&M Case Analysis and Product Innovation | | 3 | | | | | | | | | | | | | |
| TEMG | 4950 | T&M Corporate Consulting Project | | 3-5 | | | | | | | | | | | | | |
| Required credits for Additional Requirements | | | | 7 | | | | | | | | | | | | 7 | |
| University CORE | | | | | | | | | | | | | | | | | |
| CORE | C3 - C12 | U CORE - Others | | 30 | 3 | 3 | 6 | 6 | 3 | | | | | | | | |
| CORE | C1 & C2 | U CORE - English Language | | 6 | 3 | 3 | | | | | | | | | | | |
| Sub-total for University CORE | | | | 36 | | | | | | | | | | | | 36 | |
| Term load (excl. free credits) | | | | | | | | | | | | | | | | | |
| 18 18 18 18 17 19 19 18 15 14 | | | | | | | | | | | | | | | | | |
| 174## | | | | | | | | | | | | | | | | | |

Notes:

- () indicates the reuse of the same course to fulfill more than one requirement.
- * Courses offered in winter term
- ^ Courses offered in summer term
- denotes the course/requirement is either waived or substituted
- ## To graduate, students should complete all requirements as specified for DDP.

**Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.