

← Declaration of BSc major      ← Declaration of BBA major

| School:   |             | School of Engineering and School of Business Management  |  |         |     | Student's Pathway |               |             |               |             |               |             |               |             |               | Remarks |
|---|-------------|--|--|---------|-----|-------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|---------|
| Program:  |             | Dual Degree Program (BSc in Integrative Systems and Design 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 |         |
| Course Offering Dept. (course code prefix)  | Course Code | Course Title / Courses List  |  | Credits |     |                   |               |             |               |             |               |             |               |             |               |         |
| <b>BSc in Integrative Systems and Design</b>  |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| <b>Major Requirements</b>   |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| 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       |     |                   |               |             |               |             |               |             |               |             |               |         |
| LANG  | 2030        | Technical Communication I  |  | 3       | --- | ---               | ---           | ---         | ---           | ---         | ---           | ---         | ---           | ---         | ---           | 0       |
|   |             | Note: [MATH 1012 OR MATH 1013 OR MATH 1023 AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] (Subject to approval of the program office, MATH 1014/1024 may be replaced by a COMP course)   |  | 4-7     |     |                   |               |             |               |             |               |             |               |             |               |         |
| MATH  | 1012        | Calculus IA  |  | 4       |     |                   |               |             |               |             |               |             |               |             |               |         |
| MATH  | 1013        | Calculus IB  |  | 3       | 3   | 3                 |               |             |               |             |               |             |               |             |               | 6       |
| MATH  | 1014        | Calculus II  |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| MATH  | 1020        | Accelerated Calculus   |  | 4       |     |                   |               |             |               |             |               |             |               |             |               |         |
| MATH  | 1023        | Honors Calculus I  |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| MATH  | 1024        | Honors Calculus II   |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| PHYS  | 1101        | Note: PHYS1101 OR PHYS1111 OR PHYS1112 OR PHYS1312   |  | 4       |     |                   |               |             |               |             |               |             |               |             |               |         |
| PHYS  | 1111        | Introductory Physics   |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| PHYS  | 1112        | General Physics I  |  | 3       |     | 3                 |               |             |               |             |               |             |               |             |               |         |
| PHYS  | 1312        | General Physics I with Calculus  |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| PHYS  | 1312        | Honors General Physics I   |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| <b>Required credits for Engineering Fundamental Courses</b>   |             |  |  | 13-18   |     |                   |               |             |               |             |               |             |               |             |               | 12      |
| <b>Major Required Courses and Electives</b>   |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| ISDN  | 1001        | Introduction to Integrative Systems and Design   |  | 3       |     |                   |               | 3           |               |             |               |             |               |             |               | 3       |
| ISDN  | 1002        | Redefining Problems for the Real Needs   |  | 3       |     |                   |               | 3           |               |             |               |             |               |             |               | 3       |
| ISDN  | 1004        | Sketching  |  | 1       |     |                   |               | 1           |               |             |               |             |               |             |               | 1       |
| ISDN  | 1006        | Human-centered Innovation  |  | 3       |     |                   |               | 3           |               |             |               |             |               |             |               | 3       |
| ISDN  | 1010        | Academic Orientation I   |  | 0       |     |                   |               | 0           | 0             |             |               |             |               |             |               | 0       |
| ISDN  | 1011*       | Industrial Training  |  | 0       |     |                   |               |             |               |             |               |             |               |             |               | 0       |
| ISDN  | 2001        | Second Year Design Project I   |  | 1       |     |                   |               |             | 1             |             |               |             |               |             |               | 1       |
| ISDN  | 2002        | Second Year Design Project II  |  | 4       |     |                   |               |             |               | 3           |               |             |               |             |               | 3       |
| ISDN  | 2010        | Academic Orientation II  |  |         |     |                   |               |             | 0             | 0           |               |             |               |             |               |         |
| ISDN  | 2200        | Systems Thinking and Design  |  | 3       |     |                   |               | 3           |               |             |               |             |               |             |               | 3       |
| ISDN  | 2300        | Digital Design   |  | 3       |     |                   |               | 3           |               |             |               |             |               |             |               | 3       |
| ISDN  | 2400        | Physical Prototyping   |  | 3       |     |                   |               |             |               | 3           |               |             |               |             |               | 3       |
| ISDN  | 2601        | Exploring the World Through Smart Mechatronics   |  | 3       |     |                   |               | 3           |               |             |               |             |               |             |               | 3       |
| ISDN  | 2602        | Internet of Things: Integrative System Design  |  | 3       |     |                   |               |             | 3             |             |               |             |               |             |               | 3       |
| ISDN  | 2603        | Materials, Shape and Design  |  | 3       |     |                   |               |             |               |             |               |             |               |             |               | 3       |
| ISDN  | 3200        | Graphic Communication  |  | 2       |     |                   |               |             |               |             | 2             |             |               |             |               | 2       |
| ISDN  | 3001        | Third Year Design Project I  |  | 4       |     |                   |               |             |               | 3           |               |             |               |             |               | 3       |
| ISDN  | 3002        | Third Year Design Project II   |  | 4       |     |                   |               |             |               |             | 3             |             |               |             |               | 3       |
| ISDN  | 3010        | Academic Orientation III   |  |         |     |                   |               |             |               |             | 0             | 0           |               |             |               |         |
| ISDN  | 4001        | Final Year Design Project I  |  | 5       |     |                   |               |             |               |             |               |             | 4             |             |               | 4       |
| ISDN  | 4002        | Final Year Design Project II   |  | 5       |     |                   |               |             |               |             |               |             |               | 4           |               | 4       |
| ISDN  | 4010        | Academic Orientation IV  |  |         |     |                   |               |             |               |             |               |             | 0             | 0           |               |         |
| LANG  | 4030        | Note: LANG 4030 OR LANG 4031 OR LANG 4032 OR LANG 4034   |  | 3       |     |                   |               |             |               |             | 3             |             |               |             |               | 3       |
| LANG  | 4031        | Technical Communication II for CSE, CPEG & DSCT  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| LANG  | 4032        | Technical Communication II for ECE & CPEG  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| LANG  | 4034        | Technical Communication II for IEDA and ISDN   |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| ISDN  |             | Technical Communication II for Mechanical and Aerospace Engineering  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| ISDN  |             | Project-related Electives (Students should seek approval of their advisor for the choices of courses)  |  | 18      |     |                   |               |             | 3             | 3           | 3             | 6           | 3             |             |               | 18      |
| ISDN/ENR/TEMG/FINA/SOM/MARK   |             | Product Management and Entrepreneurship Electives (Courses from the specified elective list, of which at least 1 course must be at 3000-level or above.)   |  | 6       |     |                   |               |             |               |             |               | 3           |               |             |               | 3       |
| <b>Required credits for Major Requirements Courses and Electives</b>  |             |  |  | 78      |     |                   |               |             |               |             |               |             |               |             |               | 72      |
| <b>BBA in Global Business</b>   |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| <b>School Requirements</b>  |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| 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   |  | 3       |     |                   |               |             |               |             |               |             |               |             |               | 3       |
| ECON  | 2113        | Principles of Microeconomics   |  | 3       |     | 3                 |               |             |               |             |               |             |               |             |               |         |
| ECON  | 2123        | Note: ECON 2123 OR ECON 3123   |  | 3       |     |                   |               |             |               | 3           |               |             |               |             |               | 3       |
| ECON  | 3123        | Macroeconomics   |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| FINA  | 2303        | Macroeconomic Theory I   |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| FINA  | 2303        | Financial Management   |  | 3       |     |                   |               |             | 3             |             |               |             |               |             |               | 3       |
| ISOM  | 2010        | Introduction to Information Systems  |  | 3       | --- | ---               | ---           | ---         | ---           | ---         | ---           | ---         | ---           | ---         | ---           | 0       |
| ISOM  | 2020        | Coding for Business  |  | 1       | --- | ---               | ---           | ---         | ---           | ---         | ---           | ---         | ---           | ---         | ---           | 0       |
| ISOM  | 2500        | Business Statistics  |  | 3       |     |                   |               | 3           |               |             |               |             |               |             |               | 3       |
| ISOM  | 2600        | Introduction to Business Analytics   |  | 1       |     |                   |               |             |               |             |               |             |               | 1           |               | 0       |
| 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       |
| LANG  | 2061        | Note: LANG 2061 OR 2062 OR 3060  |  | 3       |     |                   |               |             |               |             |               |             |               | 3           |               | 3       |
| LANG  | 2062        | Professional Writing for the Workplace   |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| LANG  | 3060        | Professional Speaking for the Workplace  |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| LANG  | 3060        | Advanced Academic Writing  |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| 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       | (3) |                   |               |             |               |             |               |             |               |             |               | 0       |
| MATH  | 1020        | Accelerated Calculus   |  | 4       |     |                   |               |             |               |             |               |             |               |             |               |         |
| MATH  | 1023        | Honors Calculus I  |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| <b>Required credits for School Requirements</b>   |             |  |  | 45-46   |     |                   |               |             |               |             |               |             |               |             |               | 34      |
| <b>Major Requirements</b>   |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| Major Required Courses and Electives  |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| GBUS  | 1000        | Global Leadership Development  |  | 0       |     |                   |               |             | 0             | 0           | 0             | 0           | 0             | 0           | 0             | 0       |
| GBUS  | 2010        | Global Business Analysis   |  | 3       |     |                   |               |             |               | 3           |               |             |               |             |               | 3       |
| GBUS  | 2020        | Note: GBUS 2020 OR GBUS 2040   |  | 1       |     |                   |               |             |               |             |               |             |               |             |               |         |
| GBUS  | 2040        | Public Service Project   |  | 1       |     |                   |               |             |               | 1           | [1]           |             |               |             |               | 1       |
| GBUS  | 2040        | Environmental, Social, and Governance (ESG) Corporate Project  |  | 1       |     |                   |               |             |               |             |               |             |               |             |               |         |
| GBUS/ISOM   | 3030        | Note: GBUS 3030 OR ISOM 4780   |  | 3-4     |     |                   |               |             |               |             |               |             |               |             |               |         |
| GBUS  | 4780        | Global Business Case Studies   |  | 4       |     |                   |               |             |               |             | 4             | [3]         |               |             |               | 4       |
| ISOM  | 4780        | Integrated Planning and Execution  |  | 3       |     |                   |               |             |               |             |               |             |               |             |               |         |
| GBUS  | 4910        | Capstone Project   |  | 4       |     |                   |               |             |               |             |               |             | 4             | [4]         |               | 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      |     |                   |               |             |               |             |               |             | 6             | 3           | 6             | 15      |
| <b>Required credits for Major Required Courses and Electives</b>  |             |  |  | 26-27   |     |                   |               |             |               |             |               |             |               |             |               | 27      |
| <b>Additional Requirements</b>  |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| <b>Requirements for Dual Degree Program</b>   |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| 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       |     | 3                 |               |             |               |             |               |             |               |             |               | 3       |
| TEMG  | 4950        | T&M Corporate Consulting Project   |  | 3-5     |     |                   |               |             | 4             |             |               |             |               |             |               | 4       |
| <b>Required credits for Additional Requirements</b>   |             |  |  | 7       |     |                   |               |             |               |             |               |             |               |             |               | 7       |
| <b>University CORE</b>  |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| CORE  | C3 - C9     | U CORE - Others  |  | 21      |     |                   | 3             | 6           | 3             |             |               |             |               |             | 9             | 21      |
| CORE  | C1 & C2     | U CORE - English Language  |  | 6       | 3   | 3                 |               |             |               |             |               |             |               |             |               | 6       |
| HMAW  | 1905        | Behavioral Foundations of University Education: Habits, Mindsets, and Wellness   |  | 3       | 1   | 2                 |               |             |               |             |               |             |               |             |               | 3       |
| <b>Sub-total for University CORE</b>  |             |  |  | 30      |     |                   |               |             |               |             |               |             |               |             |               | 30      |
| Term load (excl. free credits)  |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| 16    17    19    18    17    19    17    20    20    19  |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| 182##   |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| ← Declaration of BSc major      ← Declaration of BBA major  |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |
| 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. |             |  |  |         |     |                   |               |             |               |             |               |             |               |             |               |         |