

| School: | | | School of Engineering and School of Business Management | | | << Declaration of BEng major | | | | | | | | | | | | << Declaration of BBA major | | | | | | | | | | | | Student's Pathway | |
|---|-------------|--|--|-------------|---------------|------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|----------|---|--|--|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|-------------------|--|
| Program: | | | Dual Degree Program (BEng in Aerospace 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 | Subtotal | Remarks | | | | | | | | | | | | | | | | |
| BEng in Aerospace Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Engineering Fundamental Courses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMP | 1023 | Note: COMP1023 OR COMP2011 OR COMP2012H | 3-6 | | | | | | | | | | | | Students should take COMP 1023, COMP 2011 or COMP 2012H which will also be used to substitute ISOM 2010 and to waive ISOM 2020 | | | | | | | | | | | | | | | | |
| COMP | 2011 | Introduction to Python Programming | 3 | 3 | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| COMP | 2012H | Programming with C++ Honors Object-Oriented Programming and Data Structures | 4 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MATH | 1013 | Note: (MATH 1013 OR MATH1023) AND (MATH 1014 OR MATH 1024) OR (MATH 1020) | 4-7 | | | | | | | | | | | | DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees | | | | | | | | | | | | | | | | |
| MATH | 1014 | Calculus I | 3 | 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 | Note: MATH2111 OR MATH2350 OR MATH2351 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MATH | 2350 | Matrix Algebra and Applications | 3 | | | | 3 | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MATH | 2351 | Applied Linear Algebra and Differential Equations Introduction to Differential Equations | 3 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PHYS | 1112 | Note: PHYS1112 OR PHYS1312 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PHYS | 1312 | General Physics I with Calculus | 3 | | 3 | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| PHYS | 1312 | Honors General Physics I | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 1008 | Science 1000-level course (1 course of the specified course list) | 3-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEM | 1012 | Introductory Chemistry | 3 | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | |
| MRS | 1901 | General Chemistry B: Atomic Structure, Molecules, and Bonding Theories | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PHYS | 1101 | General Biology I | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PHYS | 1101 | Introductory Physics | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Required Credits for Engineering Fundamental Courses | | | 19-25 | 6 | 6 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | | | | | | | | | | | | | | | | | |
| Major Required Courses and Electives | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MECH | 1901 | Academic and Professional Development I | 0 | 0 | 0 | 0 | 0 | | | | | | | 0 | | | | | | | | | | | | | | | | | |
| MECH | 1910 | Foundations of Mechanical and Aerospace Engineering | 3 | 3 | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 1990 | Industrial Training | 0 | | | 0* | 0* | | | | | | | 0 | | | | | | | | | | | | | | | | | |
| MECH | 2002 | Academic and Professional Development II | 0 | | | | | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | | | | | | | | | | | | | |
| MECH | 2007 | Aerospace Engineering: Principles and Systems | 3 | | | 3 | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 2020 | Statics and Dynamics | 3 | | | 3 | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 2040 | Solid Mechanics I | 3 | | | | 3 | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 2210 | Fluid Mechanics | 3 | | | | 3 | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 2310 | Thermodynamics | 3 | | | 3 | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 3400 | Introduction to Composite Materials | 3 | | | | | 3 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 3610 | Control Principles | 3 | | | | | 3 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 3620 | Aircraft Design | 3 | | | | | 3 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 3640 | Aerodynamics | 3 | | | | | 3 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 3650 | Aircraft Structural Analysis | 3 | | | | | 3 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 3660 | Gas Turbines and Jet Propulsion | 3 | | | | | 3 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 3670 | Aircraft Performance and Stability | 3 | | | | | 3 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 3680 | Avionics Systems | 3 | | | | | 3 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 3690 | Aerospace Engineering Laboratory | 3 | | | | | 3 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| MECH | 4980 | Final Year Aerospace Design Project | 6 | | | | | | | | | 3 | 3 | 6 | | | | | | | | | | | | | | | | | |
| ELEC | 2420 | Basic Electronics | 3 | | | 3 | | | | | | 3 | 3 | 3 | | | | | | | | | | | | | | | | | |
| MECH | | All Electives (2 courses from the specified elective list) | 6 | | | | | | | 3 | 3 | | | 6 | | | | | | | | | | | | | | | | | |
| BEng in Aerospace Engineering Major Requirements | | | 60 | 3 | 0 | 12 | 6 | 15 | 12 | 3 | 3 | 3 | 3 | 60 | | | | | | | | | | | | | | | | | |
| BBA in General Business Management | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| School Requirements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACCT | 2010 | Principles of Accounting I | 3 | 3 | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| ACCT | 2090 | Principles of Accounting II | 3 | | | | | | 3 | | | | | 3 | | | | | | | | | | | | | | | | | |
| ECON | 2103 | Note: ECON 2103 OR ECON 2113 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECON | 2113 | Principles of Microeconomics | 3 | | 3 | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| ECON | 2123 | Note: ECON 2123 OR ECON 3123 | 3 | | | | | | | | 3 | | | 3 | | | | | | | | | | | | | | | | | |
| ECON | 2123 | Macroeconomics | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECON | 2123 | Macroeconomic Theory I | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINA | 2203 | Financial Management | 3 | | | 3 | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| ISOM | 2010 | Introduction to Information Systems | 3 | - | - | - | - | - | - | - | - | - | - | 0 | | | | | | | | | | | | | | | | | |
| ISOM | 2020 | Coding for Business | 1 | - | - | - | - | - | - | - | - | - | - | 0 | ISOM 2020 is waived for DDP students who have taken and passed COMP 1023, COMP 2011 and COMP 2012H. These COMP courses are similar or more advanced coding (Python) courses as ISOM 2020. | | | | | | | | | | | | | | | | |
| ISOM | 2600 | 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 | | | | | | | | | | | | | | | | | |
| MATH | 1003 | Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023 | 3-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MATH | 1003 | Calculus and Linear Algebra | 3 | | | | | | | | | | | | DDP students should take MATH 1013 and MATH 1023 or MATH 1020 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 | | | 39-40 | 6 | 3 | 3 | 6 | 1 | 3 | 2 | 3 | 2 | 3 | 32 | | | | | | | | | | | | | | | | | |
| Major Required Courses and Electives | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SBAM | | SBAM Electives (Any 9 courses offered by the departments under SBAM, of which at least 4 courses are at 2000-level or above) | 29 | | | | 3 | 3 | 3 | 4 | 3 | 7 | 6 | 29 | | | | | | | | | | | | | | | | | |
| Required Credits for Major Required Courses and Electives | | | 23 | 0 | 0 | 0 | 3 | 3 | 3 | 4 | 3 | 7 | 6 | 29 | | | | | | | | | | | | | | | | | |
| Additional Requirement for Dual Degree | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Requirements for Dual Degree Program | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEMG | 1011 | T&M Professional Activities I | 0 | 0 | 0 | 0 | | | | | | | | 0 | To graduate, students should complete ALL requirements as specified for DDP. | | | | | | | | | | | | | | | | |
| TEMG | 1012 | T&M Professional Activities II | 0 | | | 0 | 0 | | | | | | | 0 | | | | | | | | | | | | | | | | | |
| TEMG | 1013 | T&M Professional Activities III | 0 | | | | | 0 | 0 | | | | | 0 | | | | | | | | | | | | | | | | | |
| TEMG | 1014 | T&M Professional Activities IV | 0 | | | | | | | 0 | 0 | | | 0 | | | | | | | | | | | | | | | | | |
| TEMG | 1015 | T&M Professional Activities V | 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 | | | | | | | | | | | | | | | | | |
| Required Credits for Additional Requirements | | | 7 | 0 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 7 | | | | | | | | | | | | | | | | | |
| University Common Core Requirement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CORE | C3 - C9 | U CORE - Others | 21 | | | | | | | | 6 | 6 | 3 | 6 | 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 | | | | | | | | | | | | | | | | | |
| Sub-total for University CORE | | | 30 | 4 | 5 | 0 | 0 | 0 | 0 | 6 | 6 | 3 | 6 | 30 | | | | | | | | | | | | | | | | | |
| Term load (excl. free credits) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 17 18 18 19 18 19 15 15 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 176## | | | | | | | | | | | | | | 178 | | | | | | | | | | | | | | | | | |

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.