SYLLABUSES FOR THE DEGREE OF BACHELOR OF ENGINEERING (BEng)

Engineering Core courses (applicable to candidates admitted to the four-year curriculum in the academic year 2020-21 and thereafter)

Candidates are required to satisfactorily complete 7 Engineering Core courses as specified in the syllabus of the programmes concerned, including the following 6 courses:

- ENGG1300 Fundamental mechanics (6 credits)
- ENGG1310 Electricity and electronics (6 credits)
- ENGG1320 Engineers in the modern world (6 credits)
- ENGG1330 Computer programming I (6 credits)
- MATH1851 Calculus and ordinary differential equations (6 credits)
- MATH1853 Linear algebra, probability and statistics (6 credits)

Candidates are also required to choose 1 course from the following as specified in the syllabus of the programmes concerned:

- ENGG1340 Computer programming II (6 credits)
- ENGG1350 Thermofluid mechanics (6 credits)

For candidates without taking Extended Module 1 or 2 in the Hong Kong Diploma of Secondary Education examinations, or equivalent, they have to take “MATH1011 University mathematics I” (6 credits) in the first semester of their first year of studies.

The course descriptions of the Engineering Core Courses are as follows:

**ENGG1300. Fundamental mechanics (6 credits)**

This is an introductory course for first-year engineering students to lay a solid foundation in the basics of statics and dynamics. The primary objective of this course is to introduce students the fundamental concepts and principles of statics and dynamics and their applications to solve practical problems. This course comprises two major parts - Statics and Dynamics. Statics is the study of objects in a state of force equilibrium and dynamics is the study of objects in motion. The study of statics and dynamics provides the basis and foundation for further study in all engineering disciplines, particularly in Civil and Mechanical Engineering.

Assessment: 10% practical work, 40% continuous assessment, 50% examination

**ENGG1310. Electricity and electronics (6 credits)**

In this course, the key areas in electrical and electronic engineering, such as electrical conduction, power generation and transmission, circuit elements and calculation, electromagnetic theories and applications, energy conversion technologies and renewables, optical science and fiber, signal processing applications, wireless communication technologies, and sensors and control instrumentations, will be covered at an introductory level. A system-level overview of how these engineering components have been adoptively integrated to form different existing and emerging technologies (such as mobile phones, electric vehicles, and smart grids etc.) that are playing or may play a big impact on our modern society will be discussed. Outlooks of the possible trends of electrical and electronic engineering development will be embedded in the lecture discussions.

Assessment: 40% continuous assessment, 60% examination
ENGG1320.  Engineers in the modern world (6 credits)

This course introduces fundamental concepts of engineering business; business models and financing; SWOT and market analysis; engineering entrepreneurship and innovation; system design, integration, and operation; product design and realization; and engineering sustainability. The course also involves hands-on projects in which students work in group to experience methods and techniques for the development of engineering business ideas and plans, products, or services.

Assessment: 100% continuous assessment

ENGG1330.  Computer programming I (6 credits)

This is an introductory course designed for first-year engineering students to learn about computer programming. Students will acquire basic Python programming skills, including syntax, identifiers, control statements, functions, recursions, strings, lists, dictionaries, tuples and files. Searching and sorting algorithms, such as sequential search, binary search, bubble sort, insertion sort and selection sort, will also be covered.

Assessment: 70% continuous assessment, 30% examination

ENGG1340.  Computer programming II (6 credits)

This course covers intermediate to advanced computer programming topics on various technologies and tools that are useful for software development. Topics include Linux shell commands, shell scripts, C/C++ programming, and separate compilation techniques and version control. This is a self-learning course; there will be no lecture and students will be provided with self-study materials. Students are required to complete milestone-based self-assessment tasks during the course. This course is designed for students who are interested in Computer Science/Computer Engineering.

Pre-requisite: ENGG1330 Computer programming I or COMP1117 Computer programming

Assessment: 70% continuous assessment, 30% examination

ENGG1350.  Thermofluid mechanics (6 credits)

This is an introductory course designed for first-year engineering students to learn about the fundamentals of thermal sciences and fluid mechanics through real life examples, such as refrigerator, heat pump, underwater glider, water supply, flooding, climate change, air quality, and so on.

Assessment: 10% practical work, 30% continuous assessment, 60% examination

MATH1011.  University mathematics I (6 credits)

This course aims at students with only HKDSE Mathematics (or equivalent) background and provides them with basic knowledge of mathematics that serves as essential foundation in various disciplines. It is expected to be followed by MATH1013 University mathematics II.

Pre-requisite: The course has no pre-requisite, but students are expected to have achieved Level 2 or above in HKDSE Mathematics or equivalent before enrolling the course; and not for students with Level 2 or above in Module 1 or Module 2 of HKDSE Mathematics or equivalent.

Assessment: 50% continuous assessment, 50% examination
MATH1851. Calculus and ordinary differential equations (6 credits)

In this course, students will be introduced to fundamental concepts of calculus and ordinary differential equations with a view on applications in different engineering fields. A concrete foundation of mathematics that underpins the various engineering subjects will be built. Mathematical concepts and principles, as well as some typical engineering applications, would be emphasized so that students could enhance their mathematical skills in solving engineering problems, and be well prepared in learning a higher level of applied mathematics required in different engineering disciplines.

This course is exclusively for Engineering students.

Pre-requisite: Level 2 or above in Module 1, or Module 2 of the HKDSE Mathematics or equivalent, or Pass in “MATH1011 University mathematics I”

Assessment: 30% continuous assessment, 70% examination

MATH1853. Linear algebra, probability and statistics (6 credits)

As the complementary course of MATH1851, students will be introduced to more topics of mathematics commonly applied in engineering so that students could be further enhanced with a concrete skill in mathematics underpinned for different engineering subjects. The course emphasizes mathematical concepts, principles, analysis, and their relationship to the modelling of engineering systems. Students could be furnished with the essential mathematical skill to analytically tackle some typical engineering problems to prepare for all the engineering subjects.

This course is exclusively for Engineering students.

Pre-requisite: Level 2 or above in Module 1, or Module 2 of the HKDSE Mathematics or equivalent, or Pass in “MATH1011 University mathematics I”

Assessment: 20% continuous assessment, 80% examination

University Language Enhancement Courses

All the students admitted to the Bachelor of Engineering curriculum under common code admission are required to take two English language enhancement courses and one Chinese language enhancement course in the study year as specified in the syllabuses of respective BEng curriculum:

CAES1000 Core University English¹
CAES95## English in the Discipline course for respective BEng curriculum
CENG9001 Practical Chinese for engineering students²

¹ Candidates who have achieved Level 5 or above in English Language in the Hong Kong Diploma of Secondary Education Examination, or equivalent, are exempted from this requirement, and Core University English is optional. Those who do not take this course should take an elective course in lieu, see Regulation UG 6.
² Students are required to successfully complete the 6-credit Faculty-specific Chinese language enhancement course, except for:
(a) Putonghua-speaking students who should take CUND9002 (Practical Chinese and Hong Kong Society) or CUND9003 (Cantonese for Non-Cantonese Speaking Students); and
(b) students who have not studied Chinese language during their secondary education or who have not attained the requisite level of competence in the Chinese language to take the Chinese language enhancement course should seek approval from the Board of the Faculty of Engineering for exemption from the Chinese language requirement, and
(i) take a 6-credit Cantonese or Putonghua language course offered by the School of Chinese especially for international and exchange students; OR
COURSE DESCRIPTIONS

**CAES1000. Core University English (6 credits)**

The Core University English (CUE) course aims to enhance first-year students’ academic English language proficiency in the university context. CUE focuses on developing students’ academic English language skills for the Common Core Curriculum. These include the language skills needed to understand and produce spoken and written academic texts, express academic ideas and concepts clearly and in a well-structured manner and search for and use academic sources of information in their writing and speaking. Four online-learning modules through the Moodle platform on academic speaking, academic grammar, academic vocabulary, citation and referencing skills and avoiding plagiarism will be offered to students to support their English learning. This course will help students to participate more effectively in their first-year university studies in English, thereby enriching their first-year experience.

Assessment: 100% continuous assessment

---

**CENG9001. Practical Chinese for engineering students (6 credits)**

(normally to be taken at the first semester of third year of study)

The course is designed to enable students to gain a mastery of the varieties of the Chinese language as used in the field of Engineering. It introduces students to various techniques for the effective use of practical Chinese. The course will familiarize students with traditional Chinese characters, simplified Chinese characters, modern Chinese grammar and rhetoric through outcomes-based assignments. Special training that is intended to sharpen students’ presentation skills in Cantonese and Putonghua will also be provided.

Assessment: 50% continuous assessment, 50% examination.

---

**CAES95## English in the Discipline course for respective BEng curriculum and BASc(FinTech) (6 credits)**

[to be taken in the study year as specified in the syllabuses of respective BEng curriculum]

Apart from “CAES1000 Core University English”, BEng / BASc(FinTech) students must complete a 6-credit English in the Discipline (ED) course as specified in the syllabuses of respective BEng curriculum, with the summary of the list of ED courses as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>BEng Curriculum</th>
<th>Year/Semester (normally to be taken)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAES9532</td>
<td>Technical English for Industrial and Manufacturing Systems Engineering</td>
<td>BEng(IELM) &amp; BEng(EngSc) Systems Analytics</td>
<td>Semester 2, Year 3</td>
</tr>
<tr>
<td>CAES9544</td>
<td>Technical English for Mechanical Engineering</td>
<td>BEng(ME) &amp; BEng(EngSc) Materials Engineering</td>
<td>Semester 2, Year 4 / [BEng(ME)] &amp; Year 3 / Year 4 [BEng(EngSc) Materials Engineering]</td>
</tr>
<tr>
<td>CAES9531</td>
<td>Technical English for Biomedical Engineering</td>
<td>BEng(BME) &amp; BEng(EngSc)</td>
<td>Semester 1, Year 3</td>
</tr>
</tbody>
</table>

(ii) take an elective course in lieu.
Minor Option

Candidates are given an option to pursue a minor in a discipline outside their own degree curriculum. Candidates who wish to have their minor recorded on the transcript must take and pass all the required courses in the selected minor as specified by the offering Department/Faculty in addition to the graduation requirements of their own degree curriculum. For the descriptions of the course under minor options, candidates should refer to the syllabuses of the relevant degree.

Courses taken to fulfil the Minor Option requirements may also be considered as equivalent courses that satisfy the elective requirements of the BEng curriculum, subject to the approval of the Board of the Faculty of Engineering.

Double Degree in BEng or BEng(BME)/BBA

Candidates admitted to the BEng or BEng(BME) curriculum via the Global Engineering and Business Programme may opt to pursue the one-year BBA curriculum offered by the Faculty of Business and Economics upon their meeting the prescribed admission requirements as laid down by both the Faculty of Engineering and the Faculty of Business and Economics.

Courses taken to fulfil the double degree curriculum requirements may also be considered as equivalent courses that satisfy the elective requirements of the BEng curriculum, subject to the approval of the Board of the Faculty of Engineering.

Candidates who have satisfied all the requirements of the BEng curriculum will be awarded the degree of Bachelor of Engineering. To be eligible for proceeding to the BBA programme in the 5th year, candidates must:

1. fulfil the requirements of the BEng curriculum;
2. hold a degree of BEng with Second Class Honours from The University of Hong Kong; and
3. pass the 54 credits of courses, as listed below, as required by the Faculty of Business and Economics during their study for BEng:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT1101</td>
<td>Introduction to financial accounting</td>
<td>6</td>
</tr>
<tr>
<td>ACCT2105</td>
<td>Introduction to management accounting</td>
<td>6</td>
</tr>
<tr>
<td>ECON1210</td>
<td>Introductory microeconomics</td>
<td>6</td>
</tr>
<tr>
<td>FINA1310</td>
<td>Corporate finance</td>
<td>6</td>
</tr>
</tbody>
</table>
Disciplinary core courses / disciplinary electives for BEng or BEng(BME)/BBA (Major in Entrepreneurship, Design and Innovation, EDI)
(Note: Candidates must undergo a selection process arranged by the Programme Coordinator for EDI.)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disciplinary Core Courses – complete all of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IIMT2601</td>
<td>Management information systems</td>
<td>6</td>
</tr>
<tr>
<td>MGMT2401</td>
<td>Principles of management</td>
<td>6</td>
</tr>
<tr>
<td>MKTG2501</td>
<td>Introduction to marketing</td>
<td>6</td>
</tr>
<tr>
<td>IIMT3623</td>
<td>Design thinking: concepts and applications</td>
<td>6</td>
</tr>
<tr>
<td>STRA4701</td>
<td>Strategic management</td>
<td>6</td>
</tr>
<tr>
<td>Disciplinary Electives – complete three of the following courses, at least one of them must be IIMT3627 or IIMT3682:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUSI1807</td>
<td>Business consulting practicum</td>
<td>6</td>
</tr>
<tr>
<td>IIMT3621</td>
<td>Creativity and business innovation</td>
<td>6</td>
</tr>
<tr>
<td>IIMT3626</td>
<td>Values-driven innovation</td>
<td>6</td>
</tr>
<tr>
<td>IIMT3627</td>
<td>Venture and entrepreneurship management</td>
<td>6</td>
</tr>
<tr>
<td>IIMT3682</td>
<td>IT and entrepreneurship</td>
<td>6</td>
</tr>
</tbody>
</table>

Disciplinary core courses / disciplinary electives for BEng or BEng(BME)/BBA (Major in Finance)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disciplinary Core Courses – complete all of the following course:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON1220</td>
<td>Introductory macroeconomics</td>
<td>6</td>
</tr>
<tr>
<td>MATH1009</td>
<td>Basic mathematics for business and economics or</td>
<td>6</td>
</tr>
<tr>
<td>MATH1013</td>
<td>University mathematics II</td>
<td>6</td>
</tr>
<tr>
<td>ECON2280</td>
<td>Introductory econometrics</td>
<td>6</td>
</tr>
<tr>
<td>FINA2320</td>
<td>Investments and portfolio analysis</td>
<td>6</td>
</tr>
<tr>
<td>FINA2322</td>
<td>Derivatives</td>
<td>6</td>
</tr>
<tr>
<td>Disciplinary Electives:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IIMT2601 or</td>
<td>Management information systems or</td>
<td>6</td>
</tr>
<tr>
<td>MGMT2401 or</td>
<td>Principles of management or</td>
<td>6</td>
</tr>
<tr>
<td>MKTG2501</td>
<td>Introduction to marketing</td>
<td>6</td>
</tr>
<tr>
<td>FINAxxxx</td>
<td>Finance disciplinary electives</td>
<td>12</td>
</tr>
</tbody>
</table>

Disciplinary core courses / disciplinary electives for BEng or BEng(BME)/BBA (Major in Human Resource Management, HRM)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disciplinary Core Courses – complete all of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IIMT2601</td>
<td>Management information systems</td>
<td>6</td>
</tr>
<tr>
<td>MGMT2401</td>
<td>Principles of management</td>
<td>6</td>
</tr>
<tr>
<td>MKTG2501</td>
<td>Introduction to marketing</td>
<td>6</td>
</tr>
<tr>
<td>MGMT3405</td>
<td>Organizational behaviour</td>
<td>6</td>
</tr>
<tr>
<td>Disciplinary Electives – complete four of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGMT3403</td>
<td>Leadership</td>
<td>6</td>
</tr>
<tr>
<td>MGMT3404</td>
<td>Cross-cultural management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT3415</td>
<td>Principles of entrepreneurship</td>
<td>6</td>
</tr>
<tr>
<td>MGMT3429</td>
<td>Strategic human resources management</td>
<td>6</td>
</tr>
<tr>
<td>MGMT3434</td>
<td>Human resource: theory and practice</td>
<td>6</td>
</tr>
</tbody>
</table>
Disciplinary core courses for BEng or BEng(BME)/BBA (Major in Information Systems and Analytics, ISA)
(Note: Major in ISA is not open to candidates of BEng in Computer Science.)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IIMT2641</td>
<td>Introduction to business analytics</td>
<td>6</td>
</tr>
<tr>
<td>IIMT2601</td>
<td>Management information systems</td>
<td>6</td>
</tr>
<tr>
<td>MGMT2401</td>
<td>Principles of management</td>
<td>6</td>
</tr>
<tr>
<td>IIMT3601 or</td>
<td>Database management or</td>
<td>6</td>
</tr>
<tr>
<td>COMP3278</td>
<td>Introduction to database management systems</td>
<td></td>
</tr>
<tr>
<td>IIMT3602 or</td>
<td>Information systems analysis and design or</td>
<td>6</td>
</tr>
<tr>
<td>COMP3297</td>
<td>Software engineering</td>
<td></td>
</tr>
<tr>
<td>IIMT3603</td>
<td>Project management</td>
<td>6</td>
</tr>
<tr>
<td>IIMT3642</td>
<td>Managing and mining big data</td>
<td>6</td>
</tr>
<tr>
<td>IIMT4602</td>
<td>Digital innovation</td>
<td>6</td>
</tr>
</tbody>
</table>

Disciplinary core courses / disciplinary electives for BEng or BEng(BME)/BBA (Major in Marketing)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG2501</td>
<td>Introduction to marketing</td>
<td>6</td>
</tr>
<tr>
<td>MGMT2401</td>
<td>Principles of management</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3501</td>
<td>Consumer behaviour</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3502</td>
<td>Marketing research</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3524</td>
<td>Digital marketing</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3511</td>
<td>Advertising management</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3512</td>
<td>Brand management</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3523</td>
<td>Global marketing</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3525</td>
<td>Services marketing</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3526</td>
<td>Innovation and new product development</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3527</td>
<td>Pricing strategies</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3528</td>
<td>Marketing analytics</td>
<td>6</td>
</tr>
<tr>
<td>MKTG3529</td>
<td>Social media marketing</td>
<td>6</td>
</tr>
</tbody>
</table>

To obtain the degree of BBA, candidates must satisfactorily complete 240 credits of courses, 180 of which shall be completed during the study for BEng or BEng(BME) and bring forward to the degree of BBA by advanced standing, and 60 of which shall be completed during the 5th year in accordance with the Regulations and Syllabuses for the Degree of BBA in Conjunction with the Degree of BEng. The required courses in the first four years of BEng degree and the fifth year BBA degree are not interchangeable. Change of order of study of the course is not allowed. Students can neither defer any required courses to the second degree BBA (year 5) nor advance any required courses to first degree BEng (year 1 - 4).
The degree of Bachelor of Business Administration shall be awarded in five divisions in accordance with item 14 of the Regulations for the Degree of Bachelor of Business Administration Awarded in Conjunction with the Degree of Bachelor of Engineering and UG9 of the Regulations for the First Degree Curricula. The determination of degree classification shall be based on the best 240 credits of courses as listed below:

<table>
<thead>
<tr>
<th>UG5 Requirements (42 credits)</th>
<th>Year 1 to 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• CAES1000 Core University English</td>
<td>• CAES9920 Academic Communication for Business and Economics Students</td>
</tr>
<tr>
<td></td>
<td>• CAES95## English in the Discipline course for respective BEng curriculum</td>
<td>• BUSI3801 Business Law</td>
</tr>
<tr>
<td></td>
<td>• CENG9001 Practical Chinese for Engineering students</td>
<td>• ECON1220 Introductory Macroeconomics or IIMT3635 Operations Management or IIMT3636 Decision and Risk Analysis I</td>
</tr>
<tr>
<td></td>
<td>• HKU Common Core courses (the best 24 credits, and one from each of the four Areas of Inquiry)</td>
<td>(Note: Candidates pursuing a major in Finance shall take IIMT3635 or IIMT3636.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BEng or BEng(BME)/BBA Core Courses (42 credits)</th>
<th>Year 1 to 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ACCT1101 Introduction to Financial Accounting</td>
<td>• ACCT2105 Introduction to Management Accounting</td>
<td>• CAES9920 Academic Communication for Business and Economics Students</td>
</tr>
<tr>
<td>• ACCT2105 Introduction to Management Accounting</td>
<td>• ECON1210 Introductory Microeconomics</td>
<td>• BUSI3801 Business Law</td>
</tr>
<tr>
<td>• ECON1210 Introductory Microeconomics</td>
<td>• FINA1310 Corporate Finance</td>
<td>• ECON1220 Introductory Macroeconomics or IIMT3635 Operations Management or IIMT3636 Decision and Risk Analysis I</td>
</tr>
<tr>
<td>• FINA1310 Corporate Finance</td>
<td>• CAES9920 Academic Communication for Business and Economics Students</td>
<td>(Note: Candidates pursuing a major in Finance shall take IIMT3635 or IIMT3636.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Capstone Course for declared Major (6 credits)</th>
<th>Year 1 to 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>• IIMT3624 Design Studio (for Major in Entrepreneurship, Design and Innovation (EDI)) or ECON4200 Senior Seminar in Economics and Finance (for Major in Finance) or STRA4701 Strategic Management (for Major in Human Resource Management (HRM)) or IIMT4601 Information Systems Project Management (for Major in Information Systems and Analytics (ISA)) or MKTG3531 Strategic Marketing Management (for Major in Marketing)</td>
<td>• IIMT3624 Design Studio (for Major in Entrepreneurship, Design and Innovation (EDI)) or ECON4200 Senior Seminar in Economics and Finance (for Major in Finance) or STRA4701 Strategic Management (for Major in Human Resource Management (HRM)) or IIMT4601 Information Systems Project Management (for Major in Information Systems and Analytics (ISA)) or MKTG3531 Strategic Marketing Management (for Major in Marketing)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disciplinary Core Courses/ Disciplinary Electives for declared Major (48 credits)</th>
<th>Year 1 to 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 30 credits of disciplinary core courses / disciplinary electives from the list of courses for major in Entrepreneurship, Design and Innovation (EDI), Finance, Human Resource Management (HRM), Information Systems and Analytics (ISA), Information Systems and Analytics (ISA), Information Systems and Analytics (ISA)</td>
<td>• 18 credits of disciplinary core courses / disciplinary electives from the list of courses for major in Entrepreneurship, Design and Innovation (EDI), Finance, Human Resource Management (HRM), Information Systems and Analytics (ISA), Information Systems and Analytics (ISA), Information Systems and Analytics (ISA)</td>
<td></td>
</tr>
</tbody>
</table>
Year 1 to 4 | Year 5
---|---
Analytics (ISA), or Marketing as prescribed in the BBA syllabus | Analytics (ISA), or Marketing as prescribed in the BBA syllabus

Advanced Level Courses (84 credits)  
- the best 84 credits of advanced level courses in the first degree BENG

Global Elective Courses (12 credits)  
- 12 credits of global elective courses from the list as prescribed in the BBA syllabus

FBE Elective Courses (6 credits)  
- 6 credits of elective courses offered by the Faculty of Business and Economics  
  
(Any credits in excess of final-year requirements completed under the BBA degree must be included and counted towards the honours classification)

---

**FINANCE DISCIPLINARY ELECTIVES**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT3114</td>
<td>Valuation using financial statements</td>
<td>6</td>
</tr>
<tr>
<td>FINA2311</td>
<td>Case studies in corporate finance</td>
<td>6</td>
</tr>
<tr>
<td>FINA2312</td>
<td>Advanced corporate finance</td>
<td>6</td>
</tr>
<tr>
<td>FINA2330</td>
<td>Financial markets and institutions</td>
<td>6</td>
</tr>
<tr>
<td>FINA2331</td>
<td>Management of commercial banks</td>
<td>6</td>
</tr>
<tr>
<td>FINA2332</td>
<td>International banking</td>
<td>6</td>
</tr>
<tr>
<td>FINA2342</td>
<td>Insurance: theory and practice</td>
<td>6</td>
</tr>
<tr>
<td>FINA2343</td>
<td>Lending and credit in private banking and corporate banking (1)</td>
<td>6</td>
</tr>
<tr>
<td>FINA2344</td>
<td>Lending and credit in private banking and corporate banking (2)</td>
<td>6</td>
</tr>
<tr>
<td>FINA2382</td>
<td>Real estate finance</td>
<td>6</td>
</tr>
<tr>
<td>FINA2383</td>
<td>International financial management</td>
<td>6</td>
</tr>
<tr>
<td>FINA2390</td>
<td>Financial programming and databases</td>
<td>6</td>
</tr>
<tr>
<td>FINA3317</td>
<td>Entrepreneurial finance</td>
<td>6</td>
</tr>
<tr>
<td>FINA3318</td>
<td>China’s financial system and markets</td>
<td>6</td>
</tr>
<tr>
<td>FINA3319</td>
<td>Green finance and impact investing</td>
<td>6</td>
</tr>
<tr>
<td>FINA3322</td>
<td>Credit risk</td>
<td>6</td>
</tr>
<tr>
<td>FINA3323</td>
<td>Fixed income securities</td>
<td>6</td>
</tr>
<tr>
<td>FINA3324</td>
<td>Interest rate models</td>
<td>6</td>
</tr>
<tr>
<td>FINA3325</td>
<td>Alternative investments</td>
<td>6</td>
</tr>
<tr>
<td>FINA3326</td>
<td>Equity valuation and investment management</td>
<td>6</td>
</tr>
<tr>
<td>FINA3327</td>
<td>Hedge funds: strategies, business management, and institutions</td>
<td>6</td>
</tr>
<tr>
<td>FINA3334</td>
<td>Private banking and wealth management</td>
<td>6</td>
</tr>
<tr>
<td>FINA3335</td>
<td>Current issues in asset management and private banking industry</td>
<td>6</td>
</tr>
<tr>
<td>Course code</td>
<td>Course title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>FINA3340</td>
<td>Risk management</td>
<td>6</td>
</tr>
<tr>
<td>FINA3350</td>
<td>Mathematical finance</td>
<td>6</td>
</tr>
<tr>
<td>FINA3351</td>
<td>Spreadsheet financial modeling</td>
<td>6</td>
</tr>
<tr>
<td>FINA3353</td>
<td>Regulatory and operational issues in finance</td>
<td>6</td>
</tr>
<tr>
<td>FINA3360</td>
<td>Financial practicum</td>
<td>6</td>
</tr>
<tr>
<td>FINA3381</td>
<td>Behavioral finance</td>
<td>6</td>
</tr>
<tr>
<td>FINA3382</td>
<td>Structured finance and securitization</td>
<td>6</td>
</tr>
<tr>
<td>FINA3383</td>
<td>Financial regulations and compliance</td>
<td>6</td>
</tr>
<tr>
<td>FINA3384</td>
<td>Special topics in finance</td>
<td>6</td>
</tr>
<tr>
<td>FINA3391</td>
<td>Reading course</td>
<td>6</td>
</tr>
<tr>
<td>FINA4341</td>
<td>Quantitative risk management</td>
<td>6</td>
</tr>
<tr>
<td>FINA4350</td>
<td>Text analytics and natural language processing in finance and fintech</td>
<td>6</td>
</tr>
<tr>
<td>FINA4354</td>
<td>Financial engineering</td>
<td>6</td>
</tr>
<tr>
<td>FINA4359</td>
<td>Big data analytics applied toward quantitative finance</td>
<td>6</td>
</tr>
<tr>
<td>FINA4392</td>
<td>Dissertation</td>
<td>12</td>
</tr>
</tbody>
</table>