

## SYLLABUSES FOR THE DEGREE OF BACHELOR OF ENGINEERING (BEng)

### Double Degree in BEng or BEng(BME) and BBA

Candidates admitted to the BEng or BEng(BME) curriculum through the JUPAS code JS6937 will 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 or BEng(BME) curriculum, subject to the approval of the Board of the Faculty of Engineering.

Candidates who have satisfied all the requirements of the BEng or BEng(BME) curriculum will be awarded the degree of Bachelor of Engineering or Bachelor of Engineering in Biomedical Engineering. To be eligible for proceeding to the BBA programme in the 5<sup>th</sup> year, candidates must:

- (1) fulfil the requirements of the BEng or BEng(BME) curriculum;
- (2) hold a degree of BEng or BEng(BME) 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 or BEng(BME):

Course Code	Course	Credits
ACCT1101	Introduction to financial accounting	6
ACCT2105	Introduction to management accounting	6
ECON1210	Introductory microeconomics	6
FINA1310	Corporate finance	6
	Disciplinary core courses / disciplinary electives (30 credits of courses in EDI, Finance, HRM, ISA, or Marketing major as specified below)	30
	<b>Total</b>	<b>54</b>

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.)

Course code	Course title	Credits
<b>Disciplinary Core Courses – complete all of the following courses:</b>		
IIMT2601	Management information systems	6
MGMT2401	Principles of management	6
MKTG2501	Introduction to marketing	6
IIMT3623	Design thinking: concepts and applications	6
STRA4701	Strategic management	6
<b>Disciplinary Electives – complete three of the following courses, at least one of them must be IIMT3627 or IIMT3682:</b>		
BUSI1807	Business consulting practicum	6
IIMT3621	Creativity and business innovation	6
IIMT3626	Values-driven innovation	6
IIMT3627	Venture and entrepreneurship management	6
IIMT3682	IT and entrepreneurship	6
IIMT3689	Cloud computing: essential and application in entrepreneurship	6

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

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

<sup>^</sup> MATH1009 is not open to BEng/BEng(BME) students; and MATH1013 is not for students who have passed MATH1851 Calculus and Ordinary Differential Equations and MATH1853 Linear Algebra, Probability and Statistics, which are both compulsory core courses for BEng/BEng(BME). Students shall therefore seek endorsement from the Faculty of Business and Economics for taking a 6-credit advanced level finance disciplinary elective as replacement course.

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

Course Code	Course	Credits
<b>Disciplinary Core Courses – complete all of the following courses:</b>		
MGMT2401	Principles of management	6
MGMT3403	Leadership	6
MGMT3434	Human resource: theory and practice	6
STRA4701	Strategic management	6
<b>Disciplinary Electives – complete four of the following courses:</b>		
IIMT2601	Management information systems	6
MGMT3404	Cross-cultural management	6
MGMT3405	Organizational behaviour	6
MGMT3415	Principles of entrepreneurship	6
MGMT3416	Storytelling: global business communication	6
MGMT3475	Current topics in human resource management	6
MGMT3476	Managing organizational change	6
MKTG2501	Introduction to marketing	6

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.)

Course code	Course title	Credits
<b>Disciplinary Core Courses – complete all of the following courses:</b>		
IIMT2641	Introduction to business analytics	6
IIMT2601	Management information systems	6
MGMT2401	Principles of management	6
IIMT3601 <i>or</i>	Database management <i>or</i>	6
COMP3278	Introduction to database management systems	
IIMT3602 <i>or</i>	Information systems analysis and design <i>or</i>	6
COMP3297	Software engineering	
IIMT3603	Project management	6
IIMT3642	Managing and mining big data	6
IIMT4602	Digital innovation	6

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

Course Code	Course	Credits
<b><i>Disciplinary Core Courses – complete all of the following courses:</i></b>		
MKTG2501	Introduction to marketing	6
MGMT2401	Principles of management	6
MKTG3501	Consumer behaviour	6
MKTG3502	Marketing research	6
MKTG3524	Digital marketing	6
<b><i>Disciplinary Electives – complete three of the following courses, two from List A and one from List B:</i></b>		
<i>List A (Marketing Strategy) – choose two of the following:</i>		
MKTG3511	Advertising management	6
MKTG3512	Brand management	6
MKTG3523	Global marketing	6
MKTG3525	Services marketing	6
MKTG3526	Innovation and new product development	6
<i>List B (Quantitative Marketing) – choose one of the following:</i>		
MKTG3527	Pricing strategies	6
MKTG3528	Marketing analytics	6
MKTG3529	Social media marketing	6
MKTG3530	Big data marketing	6
MKTG3532	Platform business models and the sharing economy	6

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 5<sup>th</sup> year in accordance with the Regulations and Syllabuses for the Degree of BBA in Conjunction with the Degree of BEng or BEng(BME). The required courses in the first four years of BEng or BEng(BME) 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 or BEng(BME) (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 or Bachelor of Engineering in Biomedical Engineering and UG9 of the Regulations for First Degree Curricula. The determination of degree classification shall be based on the best 240 credits of courses as listed below:

	Year 1 to 4	Year 5
UG5 Requirements (42 credits)	<ul style="list-style-type: none"> <li>• CAES1000 Core University English</li> <li>• CAES95## English in the Discipline course for respective BEng curriculum</li> <li>• CENG9001 Practical Chinese for Engineering students</li> <li>• HKU Common Core courses (the best 24 credits, and one from each of the four Areas of Inquiry)</li> <li>• Non-credit bearing courses as required by the University</li> </ul>	
BEng or BEng(BME)/BBA	<ul style="list-style-type: none"> <li>• ACCT1101 Introduction to Financial Accounting</li> </ul>	<ul style="list-style-type: none"> <li>• CAES9920 Academic Communication for Business and</li> </ul>

	Year 1 to 4	Year 5
Core Courses (42 credits)	<ul style="list-style-type: none"> <li>• ACCT2105 Introduction to Management Accounting</li> <li>• ECON1210 Introductory Microeconomics</li> <li>• FINA1310 Corporate Finance</li> </ul>	<p>Economics Students</p> <ul style="list-style-type: none"> <li>• BUSI3801 Business Law</li> <li>• ECON1220 Introductory Macroeconomics <i>or</i> IIMT3635 Operations Management <i>or</i> IIMT3636 Decision and Risk Analysis I</li> </ul> <p><i>(Note: Candidates pursuing a major in Finance shall take IIMT3635 or IIMT3636.)</i></p>
Capstone Course for declared Major (6 credits)		<ul style="list-style-type: none"> <li>• IIMT3624 Design Studio (for Major in Entrepreneurship, Design and Innovation (EDI)) <i>or</i> ECON4200 Senior Seminar in Economics and Finance (for Major in Finance) <i>or</i> MGMT3429 Strategic Human Resources Management (for Major in Human Resource Management (HRM)) <i>or</i> IIMT4601 Information Systems Project Management (for Major in Information Systems and Analytics (ISA)) <i>or</i> MKTG3531 Strategic Marketing Management <i>or</i> MKTG4501 Quantitative Marketing (for Major in Marketing)</li> </ul>
Disciplinary Core Courses/ Disciplinary Electives for declared Major (48 credits)	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), or Marketing as prescribed in the BBA syllabus	<ul style="list-style-type: none"> <li>• 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), or Marketing as prescribed in the BBA syllabus</li> </ul>
Advanced Level Courses (84 credits)	<ul style="list-style-type: none"> <li>• the best 84 credits of advanced level courses in the first degree BENG</li> </ul>	
Global Elective Courses (12 credits)		<ul style="list-style-type: none"> <li>• 12 credits of global elective courses from the list as prescribed in the BBA syllabus</li> </ul>

	Year 1 to 4	Year 5
FBE Elective Courses (6 credits)		<ul style="list-style-type: none"> <li>6 credits of elective courses offered by the Faculty of Business and Economics</li> </ul> <p><b>(Any credits in excess of final-year requirements completed under the BBA degree must be included and counted towards the honours classification)</b></p>

*Note: Candidates may refer to the "Regulations for the Degree of Bachelor of Business Administration (BBA) in conjunction with the Degree of Bachelor of Engineering (BEng) or Bachelor of Engineering in Biomedical Engineering (BME)" and "Syllabuses for the Degree of Bachelor of Business Administration (BBA) in conjunction with the Degree of Bachelor of Engineering (BEng) or Bachelor of Engineering in Biomedical Engineering (BME) " for the regulations, length and contents of courses for the double degree in BEng or BEng(BME)/BBA option.*

## FINANCE DISCIPLINARY ELECTIVES

<i>Course code</i>	<i>Course title</i>	<i>Credits</i>
ACCT3114	Valuation using financial statements	6
FINA2311	Case studies in corporate finance	6
FINA2312	Advanced corporate finance	6
FINA2330	Financial markets and institutions	6
FINA2331	Management of commercial banks	6
FINA2332	International banking	6
FINA2334	Banking – strategies, operations and controls	6
FINA2342	Insurance: theory and practice	6
FINA2343	Lending and credit in private banking and corporate banking (1)	6
FINA2344	Lending and credit in private banking and corporate banking (2)	6
FINA2350	Text analytics and natural language processing in finance and fintech	6
FINA2382	Real estate finance	6
FINA2383	International financial management	6
FINA2385	Sustainability in business and finance	6
FINA2386	Social network analysis in finance	6
FINA2390	Financial programming and databases	6
FINA3316	Investment banking: valuation, LBOs, and M&A	6
FINA3317	Entrepreneurial finance	6
FINA3318	China's financial system and markets	6
FINA3319	Green finance and impact investing	6
FINA3322	Credit risk	6
FINA3323	Fixed income securities	6
FINA3324	Interest rate models	6
FINA3325	Alternative investments	6
FINA3326	Equity valuation and investment management	6
FINA3327	Hedge funds: strategies, business management, and institutions	6
FINA3334	Private banking and wealth management	6
FINA3335	Current issues in asset management and private banking industry	6
FINA3336	Family office and asset owners	6
FINA3337	Venture capital and private equity	6
FINA3338	Multi-asset investing	6
FINA3339	Private credit	6
FINA3340	Risk management	6
FINA3350	Mathematical finance	6
FINA3351	Spreadsheet financial modeling	6
FINA3353	Regulatory, operational and valuation issues in finance institutions	6
FINA3360	Financial practicum	6
FINA3381	Behavioural finance	6
FINA3382	Structured finance and securitization	6
FINA3383	Financial regulations and compliance	6
FINA3384	Behavioural and sociological finance	6
FINA3385	ESG investing and sustainable banking	6
FINA3386	Digital assets	6
FINA3391	Reading course	6
FINA4341	Quantitative risk management	6
FINA4354	Financial engineering	6
FINA4359	Data analytics, quantitative finance, and blockchain finance	6
FINA4392	Dissertation	12