

## Curriculum for BEng(Hons) in Aviation Engineering and BEng(Hons) in Air Transport Engineering (Senior Year Intakes)

### Credit Requirements for Graduation

Normally 64 (plus 4 IC training credits)\*

\* Since students may be required to meet specific requirements at admission, the credits required for graduation will vary according to the academic background of students.

### Study Pattern of BEng(Hons) in Aviation Engineering (Senior Year Intakes)

Year 1 (33 + 4 training credits)	
Semester 1 (18 + 0/2 training credits)	Semester 2 (15 + 4/2 training credits)
AAE3002 Aircraft Structures and Materials	AAE3001 Fundamentals of Aerodynamics
AAE3004 Dynamical Systems and Control	AAE3003 Aircraft Propulsion Systems
AAE3008 Fundamental Thermal-fluid Science	AAE4006 Flight Mechanics and Control Systems
CAR I ^ # (suggest taking CAR A – English Language) #	ENG3004 Society and the Engineer
Elective Subject (1)	Elective Subject (2)
Service Learning ^	
AAE2102 Aircraft Manufacturing and Maintenance Fundamentals (4 training credits) / IC2133 [for students selecting HKAR147 stream]	
AAE3102 Integrated Aviation Engineering Project (4 training credits) / IC380 [for students <b>not</b> selecting HKAR147 stream]	
Year 2 (31 credits)	
Semester 1 (16 credits)	Semester 2 (15 credits)
AAE4004 Airworthiness and Regulations	AAE4301 Avionics Systems
CAR M ^	AF3625 Engineering Economics
CLC3243P Chinese Communication for Aviation (2 credits)	ENG4001 Project Management
ELC3531 Professional Communication in English for Engineering Students (2 credits)	Elective Subject (4)
Elective Subject (3)	
AAE4002 Capstone Project (6 credits)	

^ The study pattern for these General University Requirements (GUR) subjects is indicative only. Students may take the subjects on their own schedule.

# Students are recommended to complete CAR A – English Language in the first year of study.

**Study Pattern of BEng(Hons) in Air Transport Engineering (Senior Year Intakes)**

<b>Year 1 (33 + 4 training credits)</b>	
<b>Semester 1 (18 + 0/2 training credits)</b>	<b>Semester 2 (15 + 4/2 training credits)</b>
AAE3009 Operations Research and Computational Analytics in Air Transport Operations	AAE3006 Safety, Reliability and Compliance
AAE3012 Air Traffic Management and Airport Operations	AAE3011 Aircraft Performance and Flight Management
AAE4903 Human Factors in Aviation	AF3625 Engineering Economics
CAR I ^# (suggest taking CAR A – English Language) #	ENG3004 Society and the Engineer
Elective Subject (1)	Elective Subject (2)
Service Learning ^	
AAE2102 Aircraft Manufacturing and Maintenance Fundamentals (4 training credits) / IC2133 [for students selected HKAR147 stream]	
AAE3102 Integrated Aviation Engineering Project (4 training credits) / IC380 [for students not selected HKAR147 stream]	
<b>Year 2 (31 credits)</b>	
<b>Semester 1 (16 credits)</b>	<b>Semester 2 (15 credits)</b>
AAE4004 Airworthiness and Regulation	AAE3010 Airline Operations
CAR M^	AAE4301 Avionics Systems
CLC3243P Chinese Communication for Aviation (2 credits)	ENG4001 Project Management
ELC3531 Professional Communication in English for Engineering Students (2 credits)	Elective Subject (4)
Elective Subject (3)	
AAE4012 Capstone Project (6 credits)	

^ The study pattern for these General University Requirements (GUR) subjects is indicative only. Students may take the subjects on their own schedule.

# Students are recommended to complete CAR A – English Language in the first year of study.

## General University Requirements (GUR) Framework of Senior Year Intakes Student

Areas	Credits
<ul style="list-style-type: none"> <li>▪ Language and Communication Requirements (LCR)</li> </ul>	see <i>Note 1</i>
<ul style="list-style-type: none"> <li>▪ Service-Learning</li> </ul>	3
<ul style="list-style-type: none"> <li>▪ Cluster-Area Requirements (CAR)                             <ul style="list-style-type: none"> <li>○ 3 credits from CAR (M) “Chinese History and Culture”</li> <li>○ 3 credits from a specially-designed CAR (A) “Human Nature, Relations and Development” – English language subjects with embedded English Reading and Writing Requirements</li> <li>○ Students must also fulfil the Reading and Writing Requirements in both English and Chinese.</li> </ul> </li> </ul>	6
<ul style="list-style-type: none"> <li>▪ Essential Components of General Education (E-modules)                             <ol style="list-style-type: none"> <li>1. Academic Integrity</li> <li>2. Artificial Intelligence and Data Analytics</li> <li>3. Innovation and Entrepreneurship</li> <li>4. National Education</li> </ol> </li> </ul>	Non-credit-bearing

*Note 1: Students not meeting the equivalent standard of the Undergraduate Degree LCR (based on their previous studies in Associate Degree/Higher Diploma programmes and their academic performance) will be required to take degree LCR subjects on top of the normal curriculum requirement.*

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