

(For all students in the Program)

Undergraduate Minor Program in Aeronautical Engineering

The Minor Program in Aeronautical Engineering is designed mainly for engineering students, but open to students with a science major, with a minimum CGA of 2.5 or above and sufficient background in mathematics (e.g. MATH 1013, MATH 1014 and MATH 2011), physics (e.g. PHYS 1112 or PHYS 1152) and/or fundamental mechanics (e.g. MECH 1907). Except for students with major in Aerospace Engineering, eligible students must declare their intention to enroll in the Minor Program no earlier than the first regular term of their second year of study but no later than the last day of the add/drop period in the first regular term of their final year of study. Students who wish to withdraw from the Minor Program should apply before the last day of the add/drop period in the last regular term of their study.

Minor Requirements

To graduate with a minor in Aeronautical Engineering, students must have enrolled in the Minor Program and complete a minimum total of 18 credits and all of its requirements, as well as the requirements of the major program of study; and have attained an average grade point of at least 2.15 in courses taken within the minor program.

For credit transfer, students can transfer a maximum total of 6 credits to the Minor Program. Courses accepted for transfer credits must normally be at a level equivalent to HKUST courses of 1000-level or above.

Out of the total credits required by the minor program, at least 9 credits should be single-counted within the minor and are not used to fulfill any other requirements for graduation except the 120-credit degree requirement.

Required Course(s)

			Credit(s) attained
MECH		Note: MECH 3640 <u>OR</u> MECH 3650 <u>OR</u> MECH 3660 <u>OR</u> MECH 3670 (3 courses out of 4)	9
MECH	3640	Aerodynamics	3
MECH	3650	Aircraft Structural Analysis	3
MECH	3660	Gas Turbines and Jet Propulsion	3
MECH	3670	Aircraft Performance and Stability	3

Elective(s)

			Minimum credit(s) required
SENG		Technical Electives (Courses from the specified elective list, of which students may only use at most 1 course from Group B to count toward this requirement.)	9
Group A			
MECH	4100	Experiential Projects in Aerospace Engineering	3
MECH	4350	Indoor Air Quality in Buildings	3
MECH	4430	Materials Characterization	3
MECH	4710	Introduction to Robotics	3
MECH	4720	Introduction to Precision Engineering	3

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MECH	4740	Numerical Methods in Engineering	3
MECH	4750	Mechanical Vibration	3
CIVL	4370	Computer Methods of Structural Analysis	3
COMP	3111	Software Engineering	4
COMP	3511	Operating Systems	3
ELEC	3200	System Modeling, Analysis and Control	4
ELEC	4010D	Survey of Modern Aircraft Avionics Systems	3
IELM	2200	Engineering Management	3
IELM	2410	Logistics and Freight Transportation Operations	3
Group B			
MECH	1907	Introduction to Aerospace Engineering	3
CENG	2210	Chemical Engineering Thermodynamics	3
CENG	2220	Process Fluid Mechanics	3
CIVL	2120	Mechanics of Materials	3
CIVL	2510	Fluid Mechanics	3