

**THE UNIVERSITY OF HONG KONG
FACULTY OF ENGINEERING**

Course Selection Instruction Form
4 Year - B.Eng. in Mechanical Engineering Year 4 or above (2021–2022)

This form should be completed by the student and handed in together with a signed copy of the finalized Course Selection Report to the Department of Mechanical Engineering by **August 16, 2021**.

Name in BLOCK letters, surname first _____

University number

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Contact phone number: _____ E-mail: _____ Course Year: _____

(A) Curriculum Structure

Graduation Requirements - Checklist

Please indicate by a “✓” in the ‘**completed**’ column the courses that you have completed.

Please indicate by a “✓” in the ‘**2021-22**’ column the courses that you have selected to enroll in the 2021-2022 academic year.

Please indicate by a “E” in the ‘**others**’ column the courses that you have been granted exemption.

(1) University Requirements (CC = Common Core Courses)

Course Code	Course Title	Status Symbol			Credits
		completed	2021-22	others	
CAES1000	Core University English				6
CAES9544	Technical English for Mechanical Engineering				6
CENG9001	Practical Chinese for Engineering Students (or other replacement courses)				6
CCST					6
CCGL					6
CCCH					6
CCHU					6
CC					6
CC					6
Total credits					54

(2) Faculty Requirements

Course Code	Course Title	Status Symbol			Credits
		completed	2021-22	others	
MATH1851	Calculus and Ordinary Differential Equations				6
MECH1853	Linear Algebra, Probability & Statistics				6
ENGG1300	Fundamental mechanics				6
ENGG1310	Electricity and electronics				6
ENGG1320	Engineers in the modern world				6
ENGG1330	Computer programming I				6
Choose one of the following:					
ENGG1340	Computer programming II				6
ENGG1350	Thermofluid mechanics				6
Total credits					42

(3) Department Requirements

Year II (Introductory Core Courses)

Course Code	Course Title	Status Symbol			Credits
		completed	2021-22	others	
MECH2404	Drawing and Elements of Design and Manufacture				6
MECH2406	Fundamentals of Electrical Engineering				6
MECH2407	Multivariable Calculus and Partial Differential Equations				6
MECH2413	Engineering Mechanics				6
MECH2414	Thermofluids				6
MECH2419	Properties of Materials				6
Total credits					36

Engineering Training (Core Courses)

Course Code	Course Title	Status Symbol			Credits
		completed	2021-22	others	
MECH2418	Engineering Training (summer)				6
Total credits					6

Year III (Advanced Core Courses)

Course Code	Course Title	Status Symbol			Credits
		completed	2021-22	others	
MECH3402	Engineering Thermodynamics				6
MECH3407	Advanced Partial Differential Equation and Complex Variables				6
MECH3408	Mechanics of Fluids				6
MECH3409	Mechanics of Solids				6
MECH3418	Dynamics and Control				6
MECH3427	Design and Manufacture				6
Total credits					36

Year IV (Advanced Core Courses)

Course Code	Course Title	Status Symbol			Credits
		completed	2021-22	others	
MECH4410	Engineering & Technology Management				6
Total credits					6

Capstone Experience

Course Code	Course Title	Status Symbol			Credits
		completed	2021-22	others	
MECH4429	Integrated Capstone Experience (full year)				12
Total credits					12

Disciplinary Elective Courses

Course Code	Course Title	Status Symbol			Credits
		completed	2021-22	others	
MECH3406	Electrical and Electronic Engineering				6
MECH3416	Fundamentals of Aeronautical Engineering				6
MECH3420	Air Pollution Control				6
MECH3428	Research Experience for Undergraduates (full year)				6
MECH3429	Air conditioning and refrigeration				6
MECH3430	Fire protection in buildings				6
MECH3431	Utility services in buildings				6
MECH3432	Industrial Training (summer semester)* *This course normally takes place in the summer semester after the third year of study				0
MECH3433	Robotics, drones and autonomous ground vehicles				6

MECH4404	Automatic Control				6
MECH4407	CAD/CAM				6
MECH4409	Energy Conversion Systems				6
MECH4411	Heat Transfer				6
MECH4412	Product Design and Development				6
MECH4414	Materials of Engineering Applications				6
MECH4415	Applied Stress and Strength Analysis				6
MECH4421	Viscous Flow				6
MECH4427	Innovative design and unmanned aerial systems				6
MECH4428	Sound and Vibration				6
MEDE4601	Biomaterials design and applications				6
MEDE4602	Molecular and Cellular Biomechanics				6
MEDE4603	Transport Phenomena in Biological Systems				6
MEDE4604	Cell and Tissue Engineering				6
CIME2101	Water and Air Quality: Concepts and Measurement				6
CIVL3111	Municipal and Industrial Waste Treatment				6
CIVL3115	Solid and Hazardous Waste Management				6
CIVL3122	Wind Engineering				6
Counted up to 36					

(Free Elective Courses) (12 Credits)

Course Code	Course Title	Status Symbol			Credits
		completed	2021-22	others	
					6
					6
					12

(B) Delivery and Implementation

Time Clash

You will not be allowed to take courses with time clash. Please note that some teachers may take roll call and require full attendance in their lectures. Consequently, if you have to re-take a course which clashes in lecture hours with a higher level course, you may have to drop the higher level course.

On-line Course Enrolment

Enrolment period	Year 4 (or above) student starting from 10:00am on August 4-10, 2021, (4:00pm)
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***Online course selection will be suspended from 9:00am to 2:29pm on August 5, 2021.**

Please submit a signed copy of Course Selection Report together with this form to the Department immediately after your enrolment is finalized. **Note that the course approval status will not be changed from TW to TA until your forms are received and checked by the Department.**

Enquiry

Enquiries can be directed to:

Dr. C.K. Chan (HW5-25; phone: 3917 8554; email: ckchan1@hku.hk).

Dr. C.H. Liu (HW7-08; phone: 3917 7901; email: chliu@hku.hk).

IMPORTANT: Failing to properly complete your course enrolment may prevent you from being eligible to sit for the examination. As a student, you bear the primary responsibility to check carefully if your course selection is accurate and follows the curriculum requirements stipulated in the *Regulations for the Degree of Bachelor of Engineering*.

Date:

Signature: