HONG KONG METROPOLITAN UNIVERSITY

Programme Requirements for Bachelor of Engineering with Honours in Building Services Engineering and Sustainable Development (BENGHBSEJ)

To be eligible for the award of the **Bachelor of Engineering with Honours in Building Services Engineering and Sustainable Development**, a student shall obtain the required number of credits specified for the Year of Entry, in courses prescribed and detailed in the course tables below.

For students admitted via Year 1 entry in or after 2021/22, via Year 2 entry in or after 2022/23 and via Year 3 entry in or after 2023/24, they must complete the four University Core Values Modules, namely Core Value I (Integrity), Core Value II (Fairness), Core Value III (Perseverance), and Core Value IV (Innovation) for graduation.

Year 1 Entry

A student admitted to the programme through Year 1 Entry is required to complete a total of 165 credits as prescribed below, of which no more than 40 credits should be taken at Foundation Level:

1. 135 credits of core courses in Tables 1, 2, 3, 4 and 5;
2. 10 credits of English Language Enhancement courses *; and

   * *Note: Please refer to the updated list of English Language Enhancement courses posted on the University website (www.hkmu.edu.hk/FT_ENGLISH).*

3. 20 credits of purpose-designed General Education courses # (with 10 credits at Middle Level).

   # *Note: Please refer to the updated list of purpose-designed General Education courses posted on the University website (www.hkmu.edu.hk/FT_GE).*

Year 2 Entry

A student admitted to the programme through Year 2 Entry is required to complete a total of 125 credits of core courses in Tables 2, 3, 4 and 5, of which no more than 20 credits should be taken at Foundation Level.

Year 3 Entry

A student admitted to the programme through Year 3 Entry is required to complete a total of 80 credits of core courses in Tables 4 and 5.

Table 1: Core Courses (Foundation Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
MATH S141F	Algebra and Calculus	5	Foundation	-
STAT S151F	Probability and Distribution	5	Foundation	-

Table 2: Core Courses (Foundation Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
ENGG S101F	Engineering Mechanics	5	Foundation	-
SCI S111F	Workplace Safety and Health for Engineers	5	Foundation	-
TC S120F	Computer Applications for Test Engineers	5	Foundation	-

Table 3: Core Courses (Middle Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
ENGG S202F	Fluid Mechanics	5	Middle	b
ENGG S203F	Thermodynamics	5	Middle	b
ENGG S204F	Piped and Fire Services	5	Middle	b
ENGG S205F	Electrical Technology	5	Middle	b
ENGG S206F	HVAC	5	Middle	b
ENGG S291F	Guided Industrial Training for Building Services Engineering	5	Middle	-

Table 4: Core Course (Middle Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
ENGG S260F	Introduction to Material Science	5	Middle	b

Table 5: Core Courses (Higher Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
ENGG S301F	Project Management for Engineering	5	Higher	b
ENGG S392F	Industrial Placement for Building Services Engineering	5	Higher	-
ENGG S400F	Advanced HVAC&R and Electrical Installation	5	Higher	a
ENGG S401F	Lighting Technology	5	Higher	a
ENGG S402F	Advanced Piped and Fire Services	5	Higher	a
ENGG S403F	Construction Information Technology	5	Higher	a
ENGG S404F	Commissioning of Facilities	5	Higher	a
ENGG S490F	Engineering Project	10	Higher	a
ENVR S307F	Environmental Pollution & Global Climate Changes	5	Higher	b
ENVR S311F	Energy Resources and Sustainable Energy Strategies	5	Higher	b
ENVR S328F	Advances in Environmental Impact Assessment	5	Higher	b
TC S319F	Quality Management for Science and Technology	5	Higher	b
TC S330F	Physical & Mechanical Behavior of Materials	5	Higher	b
TC S420F	Professional Practice and Ethics	5	Higher	a

Note:

1. *If students wish to retake counterpart course(s) in e-learning mode, they should seek Programme Leader's approval, with due consideration of factors such as clash of timetabling and availability of distance learning counterparts, etc.*

Honours Classification

For the purpose of honours classification of the **Bachelor of Engineering with Honours in Building Services Engineering and Sustainable Development** programme, relevant courses are categorized as Group (a) and Group (b) as shown in Tables 3, 4 and 5.

(1) Group (a) courses shall consist of ENGG S490F (10 credits) and the best 30 credits from the remaining Higher Level courses listed in Table 5.

(2) Group (b) courses:

  (i) For Year 1 and Year 2 Entry, Group (b) courses consist of the best 40 credits from the Middle or Higher level courses listed in Tables 3, 4 and 5, where such credits are not taken into account in Group (a) courses.

  (ii) For Year 3 Entry, Group (b) courses consist of the best 35 credits (in terms of course result) from the Middle or Higher level courses listed in Tables 4 and 5, where such credits are not taken into account in Group (a) courses.

(3) Group (a) courses shall be weighted the same as Group (b) courses.

Last update: March 2023