

## Model Study Path for BENGBDU4 BME 2026 Catalogue Term

| Yr                              | Sem                | College Requirements / Gateway Education (GE): College-specified Courses  |                                                               |                                                                                                 |                                                                   | GE: English®                       | Gateway Education & Others                               |          | CUs |
|---------------------------------|--------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------------------------|----------|-----|
| 1                               | A                  | PHY1201 General Physics I (3)                                             | CHEM1200 Discovery in Biology (3)                             | MA1200 Calculus and Basic Linear Algebra I / MA1300 Enhanced Calculus and Linear Algebra I (3)  | BME2105 Introduction to Biomedical Engineering (3)                | GE1401 University English (3)      | GE1601 Whole-Person Development (1)                      |          | 16  |
|                                 | B                  | CHEM1300 Principles of General Chemistry (3)                              | CS1302 Introduction to Computer Programming (3)               | MA1201 Calculus and Basic Linear Algebra I / MA1301 Enhanced Calculus and Linear Algebra II (3) |                                                                   | GE2410 English for Engineering (3) |                                                          | GE 1 (3) | 15  |
|                                 | S                  | Reserve for missed courses /                                              |                                                               |                                                                                                 |                                                                   |                                    | Reserve for missed courses                               |          |     |
| 2                               | Major Requirements |                                                                           |                                                               |                                                                                                 |                                                                   |                                    |                                                          |          |     |
|                                 | A                  | BME2102 Introduction to Biomechanics (3)                                  | BME2123 Mathematics for Biomedical Engineering (3)            | BME2029 Electrical and Electronic Principles (3)                                                | BME2036 Engineering Computing (3)                                 |                                    | GE1501 Chinese Civilisation – History and Philosophy (3) |          | 15  |
|                                 | B                  | BME2122 Biological Thermofluids (3)                                       | BME2121 Artificial Intelligence in Biomedical Engineering (3) | BME2103 Medical Biotechnology in Imaging and Measurement (3)                                    | BME2106 Introduction to Cellular and Biomolecular Engineering (3) |                                    |                                                          | GE 2 (3) | 15  |
|                                 | S                  |                                                                           |                                                               |                                                                                                 |                                                                   |                                    | Reserve for missed courses                               |          |     |
| 3                               | A                  | BME4103 Bio-safety and Risk Assessment (3)                                | BME3121 Biomedical Signals and Systems (3)                    | BME3123 Materials for Biomedical Engineering (3)                                                | BME2104 Tissue Engineering (3)                                    |                                    |                                                          | GE 3 (3) | 15  |
|                                 | B                  | BME3102 Human Quantitative Physiology (3)                                 | BME4101 Biomedical Instrumentation (3)                        | BME3103 Bio-sensors and Bio-devices (3)                                                         | CS4465 Computational Biology and Bioinformatics (3)               | Major Elective 1 (3)               |                                                          |          | 15  |
|                                 | S                  | Reserve for Summer Internship or taking some Elective courses available / |                                                               |                                                                                                 |                                                                   |                                    | Reserve for missed courses                               |          |     |
| 4                               | A                  | BME4102 Final Year Project (3)                                            | BME3104 Robotic Technology in Healthcare (3)                  | Major Elective 2 (3)                                                                            | Major Elective 3 (3)                                              |                                    |                                                          | GE 4 (3) | 15  |
|                                 | B                  | BME4102 Final Year Project (6)                                            | BME2066 Professional Engineering Practice (3)                 | Major Elective 4 (3)                                                                            |                                                                   |                                    | Free Elective (3)                                        |          | 15  |
|                                 | S                  | Reserve for missed Elective courses /                                     |                                                               |                                                                                                 |                                                                   |                                    | Reserve for missed courses                               |          |     |
| ( ) indicates number of credits |                    |                                                                           |                                                               |                                                                                                 |                                                                   |                                    | Total credits (minimum):                                 |          | 121 |

@ Students whose entry qualifications in HKDSE English Language is below Level 4 are required to take LC0200A and/or LC0200B, and should take the GE English courses in the following semesters/terms.

Note 1: Students may alter the study path and courses can be taken in any order or in any year of study provided pre-requisite and pre-cursor requirements are satisfied and all graduation requirements could be met within the normative study period.

Note 2: Students can take Major electives from Year 3 depending on their overall study plan.