

(For students admitted in 2017-18 under the 4-year degree)

## BSc in Biotechnology and Business

Students taking the BSc Program in Biotechnology and Business as their first major are exempted from the School Requirements. However, they are still required to complete the University requirements in addition to the major requirements for graduation. For details please refer to the respective sections on this website.

Some courses used to fulfill Major Requirements can also fulfill University Common Core Requirements. Students may reuse a maximum of 9 credits of these courses to count towards Common Core Requirements.

### Major Requirements

#### Required Course(s)

|      |        |   | Credit(s)<br>attained |
|------|--------|---|-----------------------|
| BIBU | 1010   | Biotechnology and Business Seminar  | 1                     |
| BIBU | 4820** | Entrepreneurship in Biotechnology   | 3                     |
| BIBU | 4830** | Biotechnology Management  | 3                     |
| BIBU | 4840** | Biotechnology and Business Capstone Project   | 3                     |
| LIFS |        | Note: Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1901     | 0-3                   |
| LIFS | 1901   | General Biology I   | 3                     |
| LIFS | 1902   | General Biology II  | 3                     |
| LIFS | 1904   | Laboratory for General Biology II   | 1                     |
| LIFS | 2040   | Cell Biology  | 3                     |
| LIFS | 2070   | Introduction to Biotechnology   | 3                     |
| LIFS | 2210   | Biochemistry I  | 3                     |
| LIFS | 3110   | Biotechnological Application of Recombinant DNA Techniques                                      | 3                     |
| LIFS |        | Note: LIFS 4150 <u>OR</u> LIFS 4360   | 3                     |
| LIFS | 4150   | Plant Biotechnology   | 3                     |
| LIFS | 4360   | Aquaculture Biotechnology   | 3                     |
| LIFS | 4200   | Concepts and Issues in Contemporary Biotechnology   | 3                     |
| CHEM |        | Note: CHEM 1010 <u>OR</u> CHEM 1020   | 2-3                   |
| CHEM | 1010   | General Chemistry IA  | 3                     |
| CHEM | 1020   | General Chemistry IB  | 2                     |
| CHEM | 1030   | General Chemistry II  | 3                     |
| MATH |        | Note: MATH 1003 <u>OR</u> MATH 1012 <u>OR</u> MATH 1013 <u>OR</u> MATH 1020 <u>OR</u> MATH 1023 | 3-4                   |
| MATH | 1003   | Calculus and Linear Algebra   | 3                     |
| MATH | 1012   | Calculus IA   | 4                     |

|           |      |   |   |
|-----------|------|---|---|
| MATH      | 1013 | Calculus IB   | 3 |
| MATH      | 1020 | Accelerated Calculus  | 4 |
| MATH      | 1023 | Honors Calculus I   | 3 |
| PHYS      |      | Note: PHYS 1001 <u>OR</u> PHYS 1111 <u>OR</u> PHYS 1112 <u>OR</u> PHYS 1312 | 3 |
| PHYS      | 1001 | Physics and the Modern Society  | 3 |
| PHYS      | 1111 | General Physics I   | 3 |
| PHYS      | 1112 | General Physics I with Calculus   | 3 |
| PHYS      | 1312 | Honors General Physics I  | 3 |
| SCIE/SBMT |      | Note: SCIE 1000 <u>OR</u> SBMT 1111   | 0 |
| SCIE      | 1000 | Science School Induction  | 0 |
| SBMT      | 1111 | Business Student Induction  | 0 |
| ACCT      | 2200 | Principles of Accounting II   | 3 |
| ECON      |      | Note: ECON 2103 <u>OR</u> ECON 2113   | 3 |
| ECON      | 2103 | Principles of Microeconomics  | 3 |
| ECON      | 2113 | Microeconomics  | 3 |
| ECON      | 2123 | Macroeconomics  | 3 |
| FINA      | 2203 | Fundamentals of Business Finance  | 3 |
| ISOM      | 2010 | Introduction to Information Systems   | 3 |
| ISOM      | 2500 | Business Statistics   | 3 |
| ISOM      | 2700 | Operations Management   | 3 |
| MARK      | 2120 | Marketing Management  | 3 |
| MGMT      | 2110 | Organizational Behavior   | 3 |
| MGMT      | 2130 | Business Ethics and Social Responsibility                                   | 2 |
| LABU      | 2060 | Effective Communication in Business   | 3 |
| LANG      | 2010 | English for Science I   | 3 |
| LANG      | 3014 | Laboratory Report Writing for Life Science Students                         | 1 |

## Elective(s)

|                      |      |   | <b>Minimum credit(s) required</b> |
|----------------------|------|---|-----------------------------------|
| SSCI/SBM             |      | Biotechnology and Business Electives (Courses from the specified elective list, of which at least 3 credits from each area in Biotechnology / Business) | 9                                 |
| <b>Biotechnology</b> |      |   |                                   |
| LIFS                 | 3060 | Microbiology  | 3                                 |
| LIFS                 | 3140 | General Genetics  | 4                                 |
| LIFS                 | 3260 | Microbiology Laboratory   | 3                                 |
| LIFS                 | 4140 | Cancer Biology  | 3                                 |
| LIFS                 | 4370 | Human Genetics and Personalized Medicine  | 3                                 |
| LIFS                 | 4380 | Pharmacology and Toxicology   | 3                                 |
| LIFS                 | 4550 | Biochemistry of Nutrition   | 3                                 |

|                 |      |   |   |
|-----------------|------|---|---|
| LIFS            | 4630 | Advanced Topics in Biotechnology                      | 3 |
| LIFS            | 4760 | Biochemistry of Diseases                              | 3 |
| BTEC            | 5340 | Biomarkers and Medical Devices                        | 3 |
| BTEC            | 5380 | Drug Discovery and Development                        | 3 |
| CHEM            | 2110 | Organic Chemistry I                                   | 3 |
| CHEM            | 2155 | Fundamental Organic Chemistry Laboratory              | 1 |
| CHEM            | 2311 | Analytical Chemistry                                  | 3 |
| CHEM            | 2355 | Fundamental Analytical Chemistry Laboratory           | 1 |
| <b>Business</b> |      |   |   |
| ACCT            | 2020 | Introduction to Accounting for Non-Business Majors    | 3 |
| ECON            | 3014 | Managerial Microeconomics                             | 4 |
| ECON            | 3024 | Managerial Macroeconomics                             | 4 |
| FINA            | 4103 | Financial Markets Trading and Structure               | 3 |
| ISOM            | 3310 | e-Business Management and Web Analytics               | 3 |
| ISOM            | 3360 | Data Mining for Business Analytics                    | 3 |
| ISOM            | 3710 | Management Science                                    | 4 |
| ISOM            | 4020 | Innovation Management and Technology Entrepreneurship | 3 |
| ISOM            | 4750 | Business Project Management                           | 3 |
| MARK            | 3220 | Marketing Research                                    | 4 |
| MARK            | 3410 | Promotion and Advertising Management                  | 4 |
| MARK            | 3480 | Pricing Strategy                                      | 4 |
| MARK            | 4450 | Brand Management                                      | 4 |
| MGMT            | 3110 | Human Resources Management                            | 4 |
| MGMT            | 3120 | Managerial Leadership                                 | 4 |

**\*\*Remarks on course(s):**

- BIBU 4820: This is a new course subject to approval.
- BIBU 4830: This is a new course subject to approval.
- BIBU 4840: This is a new course subject to approval.