# Bachelor of Science (Honours) Bioinformatics - March 2017 Intake

| | Beta Level | | | | | | Gamma Level | | | | | | Delta Level | | | | | | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Trimester 1 | CH | Trimester 2 | CH | Trimester 3 | CH | Trimester 1 | CH | Trimester 2 | CH | Trimester 3 | CH | Trimester 1 | CH | Trimester 2 | CH | Trimester 3 | CH | |
| | T3 June Intake | | T1 June Intake | | T2 June Intake | | T3 June Intake | | T1 June Intake | | T2 June Intake | | T3 June Intake | | T1 June Intake | | T2 June Intake | | |
| **Common Core** | | | TMA1111 Mathematical Techniques | 4 | | | | | TDS2111 Data Structures and Algorithms | 3 | TMA1211 Discrete Mathematics and Probability | 4 | | | | | | | 11 |
| | | | TCP1121 Computer Programming | 4 | TAO1221 Computer Architecture and Organisation | 4 | | | TOS1141 Operating Systems | 3 | | | | | | | | | 11 |
| | | | TDB1131 Database Systems | 3 | TDC1231 Data Communications and Networking | 4 | | | TSA2131 System Analysis and Design | 3 | | | | | | | | | 10 |
| **Specialisation Core** | | | HCB1011 Cell Biology | 3 | HPB2011 Bioinformatics Programming I | 3 | | | HPB2021 Bioinformatics Programming II | 3 | HPB2031 Bioinformatics Algorithms I | 3 | | | HRD3011 Project I | 4 | HRD3011 Project II | 4 | 20 |
| | | | HBC1011 Biochemistry I | 3 | HBC1021 Biochemistry II | 3 | | | HAP1011 Human Anatomy and Physiology | 3 | HPB3021 Parallel Computing | 3 | | | TMM3341 Data Mining and Machine Learning Systems | 3 | HPC2011 Introductory course in Pharmacology | 3 | 18 |
| | | | | | HMM1011 Basic Microbiology | 3 | | | | | HHG1011 Basic Human Genetics | 3 | | | HPB3011 Bioinformatics Algorithms II | 3 | HLP3011 Legal, Moral and Ethical Issues in Life Sciences | 3 | 12 |
| | | | | | | | | | | | TDB2121 Database Design and Management | 3 | | | HMB2011 Introduction to Molecular Biology | 3 | | | 6 |
| **Industrial Training** | | | | | | | | | | | | | HIT3011 Industrial Training | 6 | | | | | 6 |
| **Elective** | | | | | | | Elective 1 | 3 | | | | | | | Elective 2 | 3 | Elective 3 and 4 | 6 | 12 |
| **Arts & Humanities** | MPU3343 Business & Entrepreneurship in Malaysia | 3 | | | | | | | MPU3143/MPU3123 Bahasa Melayu Komunikasi 2 / Tamadun Islam dan Tamadun Asia | 3 | | | | | | | | | 6 |
| | MPU3201/MPU32XX Bahasa Kebangsaan A / Foreign Language | 3 | | | | | | | MPU3173/MPU3113 Pengajian Malaysia 3 / Hubungan Etnik | 3 | | | | | | | | | 6 |
| | MPU34XX Co-Curriculum | 2 | | | | | | | | | | | | | | | | | 2 |
| **Total Subjects** | 3 | | 5 | | 5 | | 3 | | 5 | | 5 | | 1 | | 5 | | 5 | | 37 |
| **Total Credits** | | 8 | | 17 | | 17 | | 9 | | 15 | | 16 | | 6 | | 16 | | 16 | 120 |

**\*Elective subjects are subject to change by the faculty**

**Elective subjects are to be selected from the following list:**

| | |
|---|---|
| TCS2251 Computer Security | HPT2021 Introduction to Human Pathology |
| TCl3121 Computational Intelligence | TWT2231 Web Techniques and Application |
| THI2211 Human Computer Interaction | TCC3141 Cloud Computing |
| TCS2221 Computer Graphics | TSD2241 Information Systems Development |
| TPR2251 Pattern Recognition | TOB2221 Organisational Behaviour |

**Arts and Humanities Subjects:**

Malaysian students with a credit in SPM Bahasa Melayu are to take the following subjects:
(1) Hubungan Etnik  (2) Tamadun Islam dan Tamadun Asia  (3) Foreign Language (not native language)  (4) Business and Entrepreneurship in Malaysia  (5) Co-Curriculum

Malaysian students without a credit in SPM Bahasa Melayu are to take the following subjects:
(1) Hubungan Etnik  (2) Tamadun Islam dan Tamadun Asia  (3) Bahasa Kebangsaan A  (4) Business and Entrepreneurship in Malaysia  (5) Co-Curriculum

International students are to take the following subjects:
(1) Pengajian Malaysia 3  (2) Bahasa Melayu Komunikasi 2  (3) Foreign Language (not native language)  (4) Business and Entrepreneurship in Malaysia  (5) Co-Curriculum