

| Bachelor of Science (Honours) Bioinformatics - June 2013 Intake | | | | | | | | | | | | | | Total | | | | | |
|---|----------------------------|----|---|----|---|----|------------------------------|----|-----------------------------------|----|-------------|---------------------|--|--|------------------------------|---|----|----|-----|
| | Beta Level | | | | Gamma Level | | | | Delta Level | | | | | | | | | | |
| | Trimester 1 | CH | Trimester 2 | CH | Trimester 3 | CH | Trimester 1 | CH | Trimester 2 | CH | Trimester 3 | CH | | | | | | | |
| Core | Mathematical Techniques I | 3 | Computer Programming II | 3 | | | Data Structures & Algorithms | 3 | Introduction to Molecular Biology | 3 | | | Introductory Course in Pharmacology | 3 | | | 15 | | |
| | Computer Programming I | 3 | Database Systems | 3 | | | Systems Analysis & Design | 3 | Probability and Biostatistics | 3 | | | Legal, Moral & Ethical Issues in Life Sciences | 3 | | | 15 | | |
| | Basic Medical Microbiology | 3 | Data Communications & Networking | 4 | | | Database Design & Management | 3 | Introduction to Human Pathology | 3 | | | | | | | 13 | | |
| | Biochemistry I | 3 | Anatomy & Physiology of Major Organ Systems | 3 | | | Mathematical Techniques II | 3 | Basic Human Genetics | 3 | | | | | | | | 12 | |
| | Cell Biology | 3 | Biochemistry II | 3 | | | | | | | | | | | | | | 6 | |
| Major | | | | | | | Bioinformatics Programming I | 3 | Bioinformatics Programming II | 3 | | | Project I | 4 | Project II | 4 | | 14 | |
| | | | | | | | Pattern Recognition | 3 | | | | | Bioinformatics Algorithms I | 3 | Bioinformatics Algorithms II | 3 | | 9 | |
| | | | | | | | | | | | | | | Data Mining & Machine Learning Systems | 3 | | | 6 | |
| | | | | | | | | | | | | | | Parallel Computing | 3 | | | 3 | |
| Industrial Training | | | | | | | | | | | | Industrial Training | 6 | | | | 6 | | |
| Elective | | | | | | | | | Elective 1* | 3 | | | Elective 2* | 3 | Elective 3* | 3 | | 9 | |
| | | | | | | | | | | | | | | Elective 4* | 3 | | | 3 | |
| Arts and Humanities | | | | | Business & Entrepreneurship in Malaysia | 3 | | | | | | | | | | Bahasa Melayu Komunikasi 2/Tamadun Islam dan Tamadun Asia | 3 | 6 | |
| | | | | | Bahasa Kebangsaan A or Foreign Language | 3 | | | | | | | | | | Pengajian Malaysia 3/Hubungan Etnik | 3 | 6 | |
| | | | | | Co-Curriculum | 2 | | | | | | | | | | | | 2 | |
| Total Subject | 5 | | 5 | | 3 | | 6 | | 6 | | | 1 | | 5 | | 6 | | 2 | 39 |
| Total Credit | | 15 | | 16 | | 8 | | 18 | | 18 | | 6 | | 16 | | 19 | | 6 | 122 |

Elective subjects are to be selected from the following list:

| | |
|--------------------------------------|--------------------------------------|
| Computer Security | Marketing and E-Commerce |
| Computer Intelligence I | Human-Computer Interaction |
| Management Information Systems | Computer Graphics |
| Introduction to Knowledge Management | Password Authentication & Biometrics |

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