### Year 1

#### Year 1 Trimester 1
- **LANGXXX3**
  - National Language/Other Languages
  - Compulsory
  - 3.0
- **UALE1083**
  - Basic Professional Writing
  - Elective
  - 3.0
- **UCCD1003**
  - Programming Concepts and Design
  - Major
  - 3.0
- **UCCD1013**
  - Analysis and Design of Information Systems
  - Major
  - 3.0
- **UCCD1203**
  - Database Development and Applications
  - Major
  - 3.0
- **UCCM1333**
  - Introductory Discrete Mathematics
  - Major
  - 3.0

#### Total Credit Hours
- 18.0

#### LANGXXX3 ELECTIVE GROUP - Choose 1 Unit(s)
- MPW2113 - Bahasa Kebangsaan (A)
  - *For Malaysian only, without SPM-BM credit
- MPW2123 - Bahasa Kebangsaan (B)
  - **For non-Malaysian only
- UALC1003 - Introduction to Chinese Language I
  - ***Without knowledge of Chinese Language
- UALC1013 - Introduction to Chinese Language II
  - ***Have credit for Chinese Language in UPSR and PMR
- UALC1023 - Introduction to Chinese Language III
  - ***Have credit for Chinese language in SPM, STPM or UEC
- UALF1003 - Introduction to French
  - ***If exempted from MPW2113
- UALJ2013 - Introduction to Japanese
  - ***If exempted from MPW2113
- UALM1003 - Introduction to Tamil Language
  - ***If exempted from MPW2113
- UALT1003 - Introduction to Thai Language
  - ***If exempted from MPW2113

Equivalent Unit(s) for UCCD1003
- UCCS1003 - Programming Concepts and Design

#### Year 1 Trimester 2
- **MPWE02**
  - MPW Elective II
  - Elective
  - 3.0
- **UALE1113**
  - English for Information Technology
  - Elective
  - 3.0
- **UCCD1023**
  - Data Structures and Algorithms
  - Major
  - 3.0
- **UCCD1133**
  - Introduction to Computer Organisation and Architecture
  - Major
  - 3.0
- **UCCM1213**
  - Introductory Statistics
  - Major
  - 3.0
- **UCCN1003**
  - Data Communication S and Networks
  - Major
  - 3.0

#### Total Credit Hours
- 18.0

#### MPWE02 ELECTIVE GROUP - Choose 1 Unit(s)
- MPW2143 - Pendidikan Islam
- MPW2153 - Pendidikan Moral

Pre-Requisite Unit(s) for UCCD1023
1. UCCD1003 - Programming Concepts and Design
2. UCCS1003 - Programming Concepts and Design

#### Year 1 Trimester 3
- **MPW2133**
  - Pendidikan Malaysia
  - Compulsory
  - 3.0
- **UCCD2103**
  - Operating Systems
  - Major
  - 3.0
- **UCCN1203**
  - Fundamentals of Computer Security
  - Major
  - 3.0

#### Total Credit Hours
- 9.0

**Equivalent Unit(s) for UCCD1003**
- UCCS1003 - Programming Concepts and Design
### Year 2

#### Year 2 Trimester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Unit(s)</th>
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<tr>
<td>BCNFE01</td>
<td>MAJOR ELECTIVE</td>
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<tr>
<td>UCCD3003</td>
<td>OBJECT-ORIENTED PROGRAMMING</td>
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<td>UCCN2003</td>
<td>COMPUTER LAW AND ETHICS</td>
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<td>UCCN2023</td>
<td>TCP/IP INTERNETWORKING</td>
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**Total Credit Hours:** 18.0

**BCNFE01 CORE GROUP - Choose 3 Unit(s)**

- UCCD2003 - OBJECT-ORIENTED SYSTEM ANALYSIS AND DESIGN
- UCCD2013 - HUMAN COMPUTER INTERACTION
- UCCD2033 - SOFTWARE AND PROJECT MANAGEMENT
- UCCD2203 - DATABASE SYSTEMS
- UCCD3003 - ELECTRONIC COMMERCE
- UCCD3133 - DISTRIBUTED COMPUTER SYSTEMS
- UCCD3184 - MOBILE APPLICATIONS DEVELOPMENT
- UCCD3213 - SOFTWARE ENGINEERING PRACTICES
- UCCD3233 - DATABASE SYSTEMS
- UCCD3333 - COMPUTER VISION AND IMAGE PROCESSING
- UCCD3433 - CRYPTOGRAPHY
- UCCN2003 - TRANSPORT NETWORKS AND PROTOCOLS
- UCCN2013 - SIGNALS AND SYSTEMS
- UCCN2023 - COMPUTER VISION AND IMAGE PROCESSING
- UCCN2033 - TRANSPORT NETWORKS AND PROTOCOLS
- UCCN2043 - DIGITAL COMMUNICATIONS
- UCCN2093 - COMPUTER VISION AND IMAGE PROCESSING
- UCCN2506 - INDUSTRIAL TRAINING
- UCCN3113 - MULTIMEDIA NETWORKING AND REAL-TIME TRANSMISSION
- UCCN3123 - NETWORK AND SWITCH SIMULATION
- UCCN3133 - MULTIMEDIA NETWORKING AND REAL-TIME TRANSMISSION

#### Year 2 Trimester 2

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<td>UCCN2013</td>
<td>NETWORK SWITCHING AND ROUTING</td>
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<td>UCCN2023</td>
<td>FUNDAMENTALS OF WIRELESS COMMUNICATIONS</td>
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<td>UCCN2103</td>
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**Total Credit Hours:** 18.0

**BCNFE01 CORE GROUP - Choose 3 Unit(s)**

- UCCD2003 - OBJECT-ORIENTED SYSTEM ANALYSIS AND DESIGN
- UCCD2013 - HUMAN COMPUTER INTERACTION
- UCCD2033 - SOFTWARE AND PROJECT MANAGEMENT
- UCCD2203 - DATABASE SYSTEMS
- UCCD3003 - ELECTRONIC COMMERCE
- UCCD3133 - DISTRIBUTED COMPUTER SYSTEMS
- UCCD3184 - MOBILE APPLICATIONS DEVELOPMENT
- UCCD3213 - SOFTWARE ENGINEERING PRACTICES
- UCCD3233 - DATABASE SYSTEMS
- UCCD3333 - COMPUTER VISION AND IMAGE PROCESSING
- UCCD3433 - CRYPTOGRAPHY
- UCCN2003 - TRANSPORT NETWORKS AND PROTOCOLS
- UCCN2013 - SIGNALS AND SYSTEMS
- UCCN2023 - COMPUTER VISION AND IMAGE PROCESSING
- UCCN2033 - TRANSPORT NETWORKS AND PROTOCOLS
- UCCN2043 - DIGITAL COMMUNICATIONS
- UCCN2506 - INDUSTRIAL TRAINING
- UCCN3113 - MULTIMEDIA NETWORKING AND REAL-TIME TRANSMISSION
- UCCN3123 - NETWORK AND SWITCH SIMULATION
- UCCN3133 - MULTIMEDIA NETWORKING AND REAL-TIME TRANSMISSION

#### Year 2 Trimester 3

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<tr>
<td>UCCN2506</td>
<td>INDUSTRIAL TRAINING</td>
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**Pre-Requisite 54 credit hours earned for UCCN2506**

( Including University Wide or LAN Subjects)
### Year 3

#### Year 3 Trimester 1

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<td>UCCN359</td>
<td>Project I</td>
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<tr>
<td>UCCN3583</td>
<td>Elective</td>
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**Total Credit Hours 15.0**

**BCNFE01 CORE GROUP - Choose 3 Unit(s)**
- UCCB3213 - WEB APPLICATION DEVELOPMENT
- UCCD1233 - WEB SITE DEVELOPMENT
- UCCD2003 - OBJECT-ORIENTED SYSTEM ANALYSIS AND DESIGN
- UCCD2113 - HUMAN COMPUTER INTERACTION
- UCCD2203 - SOFTWARE AND PROJECT MANAGEMENT
- UCCD3003 - ELECTRONIC COMMERCE
- UCCD3113 - DISTRIBUTED COMPUTER SYSTEMS
- UCCD3123 - MULTI-CORE PROGRAMMING
- UCCD3184 - MOBILE APPLICATIONS DEVELOPMENT
- UCCD3213 - SOFTWARE ENGINEERING PRACTICES
- UCE1101 - DIGITAL FUNDAMENTALS
- UCE1102 - DIGITAL CIRCUITS AND SYSTEMS
- UCE1104 - DIGITAL CIRCUITS AND SYSTEMS
- UCE1201 - SIGNALS AND SYSTEMS
- UCE2083 - EMBEDDED NETWORK DEVICES
- UCE2087 - COMPUTER VISION AND IMAGE PROCESSING
- UCM1103 - CALCULUS I AND APPLICATIONS
- UCM2103 - CALCULUS II AND APPLICATIONS
- UCM2233 - GRAPH THEORY AND APPLICATIONS
- UCM3123 - OPERATIONS RESEARCH I
- UCM3134 - OPERATIONS RESEARCH II
- UCM3343 - CRYPTOGRAPHY
- UCN2033 - TRANSPORT NETWORKS AND PROTOCOLS
- UCN2043 - DIGITAL COMMUNICATIONS
- UCN2113 - SERVER MANAGEMENT AND ADMINISTRATION
- UCN2203 - NETWORK AND COMPUTER SECURITY
- UCN2113 - TELETRAFFIC ENGINEERING
- UCN3003 - OPTICAL SWITCHING AND NETWORKING
- UCN3013 - WIRELESS AND MOBILE NETWORKING
- UCN3103 - NETWORK PROGRAMMING
- UCN3113 - MULTIMEDIA NETWORKING AND REAL-TIME TRANSMISSION
- UCN3203 - WIRELESS SECURITY
- UCN3213 - NETWORK AND SWITCH SIMULATION

**Pre-Requisite Unit(s) for UCCD2113**
- UCCD1023 - DATA STRUCTURES AND ALGORITHMS

#### Year 3 Trimester 2

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<td>UCCN359</td>
<td>Project I</td>
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<td>UCCN3583</td>
<td>Elective</td>
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**Total Credit Hours 15.0**

**BCNFE01 CORE GROUP - Choose 2 Unit(s)**
- UCCN3583 - DIGITAL COMMUNICATIONS
- UCCN359 - PROJECT II

#### Year 3 Trimester 3

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<tr>
<td>BCNFE02</td>
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<tr>
<td>UBMM1011</td>
<td>SUN Tzu's Art of War and Business Strategies</td>
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<td>USCC10X2</td>
<td>Elective FBAC CURRICULAR ELECTIVE</td>
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**Total Credit Hours 6.0**

**BCNFE02 ELECTIVE GROUP - Choose 1 Unit(s)**
- USCC10X2 CORE GROUP - Choose 1 Unit(s)

**Pre-Requisite Unit(s) for UCCN3596**
- UCCN3583 - PROJECT I
BCNFED2 CORE GROUP - Choose 1 Unit(s)
Pre-Requisite 80 credit hours earned for
UCCN3583
(Including University Wide or LAN Subjects)

REMARK: BACHELOR OF INFORMATION TECHNOLOGY (HONS) COMMUNICATIONS AND NETWORKING 201101 Intake
NOTE: A pre-requisite group number represents one pre-requisite unit subject.
If a pre-requisite group number has more than one units, choose one unit out of a group.