

DEPARTMENT OF COMPUTING



LIST OF UNDERGRADUATE COURSES

| CODES | TITLES | CREDIT | SEMESTER OFFERED | Level | PREREQUISITES |
|-----------------|---|-----------|------------------|-------|--|
| LEVEL I | | | | | |
| COMP1126 | INTRODUCTION TO COMPUTING I | 3 Credits | Semester 1 & 2 | 1 | Any one of the following: <ul style="list-style-type: none"> • CAPE (or A-level) Science subject [Units 1 & 2] • ECON1003 • Teacher's College Diploma or Assoc. Degree in Mathematics or Science or Information Technology |
| COMP1127 | INTRODUCTION TO COMPUTING II | 3 Credits | Semester 1 & 2 | 1 | Any one of the following: <ul style="list-style-type: none"> • CAPE (or A-level) Science subject [Unit 1 & 2] • ECON1003 • Teacher's College Diploma or Assoc. Degree in Mathematics or Science or Information Technology |
| COMP1161 | OBJECT-ORIENTED PROGRAMMING | 3 Credits | Semester 1 & 2 | 1 | COMP1126 and COMP1127 |
| COMP1210 | MATHEMATICS FOR COMPUTING | 3 Credits | Semester 1 & 2 | 1 | CSEC Mathematics |
| COMP1220 | COMPUTING AND SOCIETY | 3 Credits | Semester 1 & 2 | 1 | None |
| LEVEL II | | | | | |
| COMP2130 | SYSTEMS PROGRAMMING | 3 Credits | Semester 1 or 2 | 2 | COMP1126, COMP1127 and COMP1161 |
| COMP2140 | SOFTWARE ENGINEERING | 3 Credits | Semester 1 | 2 | COMP1126, COMP1127 and COMP1161 |
| COMP2170 | OBJECT TECHNOLOGY | 3 Credits | Semester 2 | 2 | COMP2140 |
| COMP2190 | NET-CENTRIC COMPUTING | 3 Credits | Semester 1 | 2 | COMP1126, COMP1127, COMP1161, and (COMP1210 or MATH1152) May not be credited with COMP3150(CS32Q) |
| COMP2201 | DISCRETE MATHEMATICS FOR COMPUTER SCIENCE | 3 Credits | Semester 1 | 2 | COMP1210 or MATH1152 |

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|------------------|--|---------------|--------------------------|--------------|--|
| COMP2211 | ANALYSIS OF ALGORITHMS | 3 Credits | Semester 2 | 2 | COMP1126, COMP1127, COMP1161 and COMP1210 |
| COMP2340 | COMPUTER SYSTEMS ORGANIZATION | 3 Credits | Semester 2 | 2 | COMP1126, COMP1127, COMP1161 and COMP1210 |
| INFO2100 | MATHEMATICS AND STATISTICS FOR IT | 3 Credits | Semester 2 | 2 | COMP2201 |
| INFO2110 | DATA STRUCTURES FOR IT | 3 Credits | Semester 1 | 2 | COMP1126, COMP1127 and COMP1161 |
| INFO2180 | DYNAMIC WEB DEVELOPMENT I | 3 Credits | Semester 1 | 2 | COMP1126, COMP1127 and COMP1161 |
| LEVEL III | | | | | |
| COMP3101 | OPERATING SYSTEMS | 3 Credits | Semester 1 | 3 | COMP2340 |
| COMP3161 | DATABASE MANAGEMENT SYSTEMS | 3 Credits | Semester 2 | 3 | COMP2201 |
| COMP3162 | DATA SCIENCE PRINCIPLES | 3 Credits | Semester 2 | 3 | COMP2201 or INFO2100 [and] COMP2211 or INFO2110 |
| COMP3191 | PRINCIPLES OF COMPUTER NETWORKING | 3 Credits | Semester 1 | 3 | COMP2190 |
| COMP3192 | IMPLEMENTATION OF COMPUTER NETWORKS | 3 Credits | Semester 2 | 3 | COMP3191 |
| COMP3220 | PRINCIPLES OF ARTIFICIAL INTELLIGENCE | 3 Credits | Semester 1 | 3 | COMP2211 and COMP2201 |
| COMP3410 | INTRODUCTION TO PARRALLEL COMPUTING | 3 Credits | Semester 2 | 3 | COMP2211 or COMP2201 [and] COMP2340 |
| COMP3652 | LANGUAGE PROCESSORS | 3 Credits | Semester 1 or 2 | 3 | COMP2211 |
| COMP3702 | THEORY OF COMPUTATION | 3 Credits | Semester 2 | 3 | COMP2201 |
| COMP3801 | REAL-TIME EMBEDDED SYSTEMS | 3 Credits | Semester 1 | 3 | COMP2340 and COMP2140 |
| COMP3901 | CAPSTONE PROJECT | 3 Credits | Semester 2 and Summer | 3 | COMP2140, COMP2211, and Any 6 credits of Level 2 or 3 Computing code courses |
| COMP3911 | INTERNSHIP IN COMPUTING I | 3 Credits | Semester 1, 2 and Summer | 3 | Permission of the Head of Department |

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|-----------------|--|---------------|--------------------------|--------------|---|
| COMP3912 | INTERNSHIP IN COMPUTING II | 6 Credits | Semester 1, 2 and Summer | 3 | Permission of the Head of Department |
| INFO3105 | COMPUTER SYSTEM ADMINISTRATION | 3 Credits | Semester 1 | 3 | COMP2340 and COMP2190 |
| INFO3110 | INFORMATION SYSTEMS | 3 Credits | Semester 2 | 3 | COMP2140 and COMP2190 |
| INFO3155 | INFORMATION ASSURANCE AND SECURITY | 3 Credits | Semester 2 | 3 | COMP2190 and (COMP2201 or INFO2100) |
| INFO3170 | USER INTERFACE DESIGN FOR IT | 3 Credits | Semester 1 | 3 | COMP2160 or COMP2140 or INFO2180 |
| INFO3180 | DYNAMIC WEB DEVELOPMENT II | 3 Credits | Semester 2 | 3 | INFO2180 |
| INFO3435 | ECOMMERCE | 3 Credits | Semester 1 | 3 | COMP2140 and INFO2180 |
| SWEN2165 | REQUIREMENTS ENGINEERING | 3 Credits | Semester 1 | 3 | COMP2140 or SWEN1007 |
| SWEN3130 | SOFTWARE PROJECT MANAGEMENT | 3 Credits | Semester 1 | 3 | COMP2140 |
| SWEN3145 | SOFTWARE MODELING | 3 Credits | Semester 1 | 3 | COMP2140 and COMP2170 |
| SWEN3165 | SOFTWARE TESTING | 3 Credits | Semester 2 | 3 | COMP2140 and COMP2170 |
| SWEN3185 | FORMAL METHODS AND SOFTWARE RELIABILITY | 3 Credits | Semester 2 | 3 | COMP2201 |
| SWEN3920 | CAPSTONE PROJECT (SOFTWARE ENGINEERING) | 6 Credits | Semester 2 and Summer | 3 | COMP2140, SWEN3130, SWEN3145, SWEN3165 AND SWEN3185 |

****Note**** 1. Students cannot do a double major in Computing disciplines
2. Students cannot do a major and a minor in Computing disciplines