ASSOCIATE IN SCIENCE DEGREE
PROGRAM OF STUDY: COMPUTER PROGRAMMING & ANALYSIS-MOBILE APP. DEVELOPMENT
(25070)
EFFECTIVE TERM: Fall 2017 (2017-1)

I. GENERAL EDUCATION REQUIREMENTS

1. COMMUNICATIONS (3.00 credits)
   - ENC 1101 - English Composition 1 (3 credits)

2. ORAL COMMUNICATIONS (3.00 credits)
   - SPC 1017 - Fundamentals of Speech Communication (3 credits)

3. HUMANITIES (3.00 credits)
   - PHI 2604 - Critical Thinking/Ethics (3 credits)

4. BEHAVIORAL/SOCIAL SCIENCE (3.00 credits)
   - CLP 1006 - Psychology of Personal Effectiveness (3 credits)

5. MATHEMATICS (3.00 credits)
   - MAC 1105 - College Algebra (3 credits)

6. COMPUTER COMPETENCY
   Test type(s) needed:
   - CGS 1060

7. MAJOR COURSE REQUIREMENTS (21.00 credits)
   - CGS 1060
   - CGS 1540
   - CIS 2331 - Systems Analysis, Design and Implementation (5 credits)
   - COP 1334 - Introduction to C++ Programming (4 credits)
   - COP 2800 - Java Programming (4 credits)

8. PROGRAM ELECTIVE (24.00 credits)
   Must take 16.0 credits from the following group.
   - COP 2660 - Android Application Development 1 (4 credits)
   - COP 2662 - Android Application Development 2 (4 credits)
   - COP 2658 - iPhone Application Development 2 (4 credits)
   - COP 2654 - iPhone Application Development 1 (4 credits)
   - COP 2805
   - COP 2335 - Object Oriented Programming using C++ (4 credits)

   Must take 8.0 credits from the following group.
   - COP 2085
   - CGS 2091 - Professional Ethics and Social Issues in CS (4 credits)
   - GCS 2091 - Professional Ethics and Social Issues in CS (4 credits)
* End of Program Sheet *