**Computer Science Course Flowchart**

1. **General Information**
   - This pamphlet briefly outlines the undergraduate Computer Science (CS) program for the Bachelor of Science degree offered by the Department of Electrical Engineering & Computer Science (EECS). CS students have many unique advantages at UCF:
   - The UCF Programming Team is one of the best in the world!
   - The UCF Foundation Exam is a qualifying test all CS majors must pass to advance to upper-level CS courses.

2. **Transfer of Credit**
   - Courses with a common course number taken at any Florida State University System (SUS) institution or Florida State or State University System (SUS) institution or Florida State or Florida community college automatically satisfy the GEP.
   - Exceptions:
     - Substitutions for GEP must be approved through Academic Affairs Office (ENG1, PHY 2048C, PHY 2049C, PHY 2049D, PHY 2049G).
   - 6 Hours from:
     - BSC 2010, BSC 2011, CHM 2045, CHM 2046, BSC 2010 and BSC 2011 must be filed in the Academic Affairs Office (ENG1, PHY 2048C, PHY 2049D, PHY 2049G).
   - 6 Hours from:
     - BSC 2010, BSC 2011, CHM 2045, CHM 2046, BSC 2010 and BSC 2011 must be filed in the Academic Affairs Office (ENG1, PHY 2048C, PHY 2049D, PHY 2049G).

3. **How to Apply**
   - For an application to UCF and CS, visit or write to:
     - www.admissions.msa.ucf.edu
     - UCF Office of Undergraduate Admissions
     - PO Box 100111, Orlando, FL 32816-2362

4. **Additional Information**
   - Computer Science Office/Advising (HEC 346), (407) 823-2341
   - Computer Science Advising Office (ENG1 107): (407) 823-2341
   - Graduate Program Office (ENG1 107): (407) 823-2341
   - Office of Undergraduate Admissions:
     - (407) 823-2341
   - Office of Graduate Admissions:
     - (407) 823-2341
   - Bookstore:
     - Orlando: (407) 823-2300
     - Celebration: (407) 823-2300
   - Campus Tours:
     - Orlando: (407) 823-2300
     - Celebration: (407) 823-2300
   - Info & Directions to UCF:
     - Orlando: (407) 823-2300
     - Celebration: (407) 823-2300
   - Employment Opportunity:
     - Orlando: (407) 823-2300
     - Celebration: (407) 823-2300
   - Financial Aid:
     - Orlando: (407) 823-2300
     - Celebration: (407) 823-2300
   - Housing:
     - Orlando: (407) 823-2300
     - Celebration: (407) 823-2300
   - Multicultural Academic & Support:
     - Orlando: (407) 823-2300
     - Celebration: (407) 823-2300
   - Rackham:
     - Orlando: (407) 823-2300
     - Celebration: (407) 823-2300
   - Veteran’s Assistants:
     - Orlando: (407) 823-2300
     - Celebration: (407) 823-2300
   - University Honors Programs:
     - Orlando: (407) 823-2300
     - Celebration: (407) 823-2300
   - University Honors Programs Web site:
     - www.ucf.edu

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**B.S. Degree in Computer Science**

1.1 **Accreditation**
   - The Computer Science BS program is accredited by the Computing Accreditation Commission of ABET. Click on the “Undergraduate Programs” heading and then “B.S. in Computer Science” and the sections’s other links.

2. **The Academic Program**
   - The following information is gathered from the UCF catalog, the Undergraduate Policies and Procedures Manual and the program procedures in EECS. This brochure should not be considered a legal document, is not necessarily exhaustive and is subject to change without notice.
   - All UCF students must fulfill a 36-hour General Education Program (GEP) requirement. The GEP is automatically satisfied by students with a prior B.S. from an accredited institution or an A.A. degree from a Florida community college. Please consult the UCF catalog for specific details. Students must complete 120 semester hours of course work with a grade point average (GPA) of at least 2.0 and satisfy all University and Computer Science program requirements to earn a B.S. in Computer Science.

Any student wishing to receive a B.S. MS degree in CS, a double major, or to seek a second Bachelor’s degree should consult the UCF catalog and the CS coordinator. A student must be an official CS major to earn the computer science degree.

2.1 **Foreign Language & Multicultural Requirements**
   - There are two separate issues with regard to foreign languages. In order to be admitted to the University, the State of Florida requires two years of high school foreign language (or equivalent). This is called “Foreign Language Admission Requirement.” In some cases, students who did they want to hire CS graduates from our Department of EECS.
   - A detailed description of our computer facilities, faculty expertise and course descriptions is at: www.eecs.ucf.edu.

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**B.S. MS Degree in Computer Science is also offered by the Dept of EECS**

**Earn BOTH degrees in 5 years!**

For more information on the BS+MS, contact:
Dr. Hassan Foroosh, CS Graduate Program Coordinator
BS+MS@CS@eecs.ucf.edu

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**DEPARTMENT OF ELECTRICAL ENGINEERING & COMPUTER SCIENCE**

February 26, 2015
### 4Year Plan

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**Total Credits:** 120

### PLAN COMMENTS:

- **SUP-1:** Choose two courses from the Science Group: CS Science.
- **SUP-2:** Choose courses from the Upper Division Math/Stat Group. Choose one course from the CS Multi-culture Group. This includes any college-level Foreign Language.
- **SUP-3:** Choose three courses from Group, CS-A. Any Foreign Language courses.

### Note:
- The "Sample Program of Study" assumes that the student has an AA from a Florida Community Collage and has completed all science/math courses.

### 2.2.1 Computer Science Core (54 hours)

- **Basic Core (Total 11 hours):**
  - COP 2223: Intro to Programming with C
  - COP 3330: Intro to OOP Programming with Java
  - COP 3500C: Computer Science I
  - COP 3503C: Computer Science II (3 cr)
  - CDA 3103: Computer Organization (3 cr)
  - COP 3409: Systems Software
  - COT 3100C: Intro to Discrete Structures
  - CST 3960: CS Foundation Exam

- **Support Courses (Total 33 hours):**
  - MAC 2311: Calculus w/ Analytic Geometry I
  - MAC 2312: Calculus w/ Analytic Geometry II
  - STA 2023: Statistical Methods I
  - PHY 204C: Physics for Engr. & Sci. I
  - PHY 2049C: Physics for Engr. & Sci. II

### 2.2.2 Upper Division Required Courses (21 hours)

- **COP 4331C:** Procs for OOP Development (3 cr)
- **EEL 476B:** Intro to Computer Architecture (3 cr)
- **COP 4020:** Programming Languages
- **COP 4600:** Introduction to Operating Systems
- **COT 4210:** Discrete Computational Structures
- **COP 4934:** Senior Design I
- **COP 4935:** Senior Design II

### 2.2.3 Restricted Electives (15 hours)

- **Nine (9) additional hours of 4000- and 5000-level computer science courses include:**
  - Courses required by the respective science majors, such as BSC 2010, BSC 2011, CHM 2045 or CHM 2046, 18 cr.

### 2.3 Special Departmental Requirements

- **Foundation Exam:** Prior to taking COP 4331C and COP 4600 (and beyond), students MUST pass the Foundation Exam, which covers problem solving techniques, algorithms, abstractions, proofs, programming skills, etc. Typically, students are expected to take the Foundation Exam in the same semester they complete COP 3502C and COT 3100C.

- **Grade Requirements:** All department-required courses (listed in sections 2.2.1, 2.2.2 and 2.2.3) must be passed with a “C” grade or better. A minimum GPA of 2.5 is required in the courses listed in section 2.2.2.