Computer Science Course Flowchart

Departmental Residency Requirement: At least 24 hours of computer science coursework must be completed in the CS department at UCF (18 hours of these in regularly scheduled 4000- and 5000-level courses and six (6) of these in 3000- to 5000-level).

2.4 Transfer of Credit

Courses with a common course number taken at any Florida State University System (SUS) institution or Florida community college are automatically transferable. Students with a Bachelor of Science from an accredited institution or an Associate of Arts degree from a Florida SUS institution or Florida community college are automatically satisfied the GEP.

Substitutions for GEP must be approved through Academic Services, Millican Hall (MH) 210.

Substitutions for department requirements are on a course-by-course basis and MUST be approved by the CS Undergraduate Coordinator and the EECS Director. Instructions for this process are in the Computer Science Office: Harris Corporation Engineering Center (HEC 246).

The decision is typically based on the degree of similarity of the two courses both in content and level of presentation. Regardless of transfer credit, the University and School residency requirements must be satisfied.

Exception: Substitution requests for MAC 2311, MAC 2312, PHY 2048, PHY 2049, CHM 2045, CHM 2046, BSC 2010 and BSC 2011 must be filed in the Academic Affairs Office (ENG 107).

4. Additional Information

For more information on the BS+MS, contact:

Dr. Ronald Dutton, CS Graduate Program Coordinator
BSMSinCS@eecs.ucf.edu

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 student must demonstrate proficiency in a foreign language as indicated by the UCF catalog.

B.S. Degree Program in Computer Science

1. General Information

This pamphlet briefly outlines the undergraduate Computer Science (CS) program for the Bachelor of Science degree offered by the School 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! CS teams compete annually in the ACM's International Programming Contest, and our CS team has an unmatched record — finishing in the Southeast region’s top three every year since 1982! CS teams have earned five Top-10 finishes out of 6,000 teams worldwide.
- EECS has prestigious research programs for undergraduates (REUs). EECS has been an NSF REU site in Computer Vision since NSF started the program in 1987.
- The Association for Computing Machinery (ACM) student chapter, additional Research Experiences for Undergraduates (REUs), IEEE Computer Society and UPE Computer Science Honor Society and the CS Foundation Exam all provide real-life benefits including networking, face-to-face meetings with experts and career experience.

- The School’s new home is the Harris Corp. Engineering Center — an ultra high-tech building with revolutionary equipment, computers and labs for students.
- The Computer Science Foundation Exam is a qualifying test all CS majors must pass to advance to upper-level CS courses. Nationally, only UCF’s CS Program uses a test this way — a major resume builder and a feature many industry partners highlight as a primary reason they want to hire CS graduates from our School of EECS.
- A detailed description of our computer facilities, faculty expertise and course descriptions is at: www.eecs.ucf.edu/. Click on the “Undergraduate Programs” heading and then “B.S. in Computer Science” and the section’s other links.

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 BS+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.

2.2 Foreign Language & Multicultural Requirements

There are two separate issues with regard to foreign languages. In order to be admitted to the University, the student must demonstrate proficiency in a foreign language as indicated by the UCF catalog.
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 not have two years of foreign language in high school are provisionally admitted but they must satisfy the requirement before graduation.

Foreign Language Graduation Requirement: All undergraduates must demonstrate proficiency in a testable foreign language (see UCF catalog for the definition of "testable") equivalent to successful completion of one year at the college level. Alternatively, students may satisfy this requirement by the successful completion of the equivalent course work. In the case of non-testable languages, the requirement may be satisfied by documentation through the Office of Undergraduate Studies.

Computer science students who satisfied the Foreign Language Admission Requirement may satisfy the Foreign Languages Graduation Requirement by taking one course from a list of multicultural or college-level foreign language courses and CIS 3360. Those who have not yet satisfied the Foreign Language Admission Requirement should complete two (2) semesters of a single foreign language at college level. This simultaneously satisfies both admission and graduation requirements.

Please see the Computer Science Academics Web page (www.eecs.ucf.edu/undergrad/CS/) and click on "Foreign Language Requirement or Multicultural Courses" for a current list of courses that satisfy this multicultural requirement.

2.2 Course Requirements

2.2.1 Computer Science Core (56 hours)

Basic Core (Total 22 hours)

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2.2.2 Upper Division Required Courses (20 hours)

Two (2) Science Courses

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Four-Year Plan Comments:

2.2.3 Restricted Electives (15 hours)

Nine (9) additional hours of 4000- and 5000-level computer science courses. A partial list of such elective courses includes: COP 4020, COP 4453, COP 4630, COS 5131, COP 4520, COP 4516, COP 4710, COP 4110, COP 4500, COS 3360 and CIS 3362. No more than three (3) hours of independent study in computer science may be used.

Six (6) hours of math or statistics, exclusive of independent study. Course work must be selected from STA, MAP, MAD, MAS prefixes at the 4000 or 5000 level and MAC 2313, MAC 2302, MAS 3105 and MAS 3106.

Support Courses (Total 33 hours)

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2.3 Special Departmental Requirements

Foundation Exam: Prior to taking COP 4331 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 3502 and COP 3100.

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.