

## CIS-11 — COMPUTER ARCHITECTURE AND ORGANIZATION: ASSEMBLY

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### About This Course

**Transfer:** UC, CSU

**C-ID:** (C-ID:COMP 142)

3.00 units

Prerequisite: None., Advisory: CIS/CSC-5.

Description: An introduction to microprocessor architecture and assembly language programming. The relationship between hardware and software will be examined in order to understand the interaction between a program and the total system. Mapping of statements and constructs in a high-level language onto sequences of machine instructions is studied as well as the internal representation of simple data types and structures. Numerical computation is performed, noting the various data representation errors and potential procedural errors. 54 hours lecture and 18 hours laboratory. (TBA option) (Same as CSC-11) (Letter grade only)