

# INFORMATION COMPUTER SCIENCES (ICS)

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**ICS C123** **3 Units (36 lecture hours; 54 lab hours)**

**Fundamental Data Structures**

**Prerequisite(s):** INFM C141 and C142 and PHIL C115 and ENGL C100 with grades of C or better.

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU; UC.

An introduction to computer science. Strong emphasis on data structures: what various ones are, how they are used, and the pros and cons, in terms of execution time and memory usage, of choosing one over another. Graded or Pass/No Pass option.

**ICS C141** **3 Units (45 lecture hours; 27 lab hours)**

**Concepts Of Programming Languages 1**

**Prerequisite(s):** INFM C141 and C142 and C143 and C144 and ICS C123 and PHIL C115 and ENGL C100 with grades of C or better.

**Grading Mode:** Standard Letter, Pass/No Pass

**Transfer Credit:** CSU; UC.

Explore a broad range of approaches to programming, the technical principles and characteristics of different programming languages, and the issues that programming language designers must consider. Graded or Pass/No Pass option.