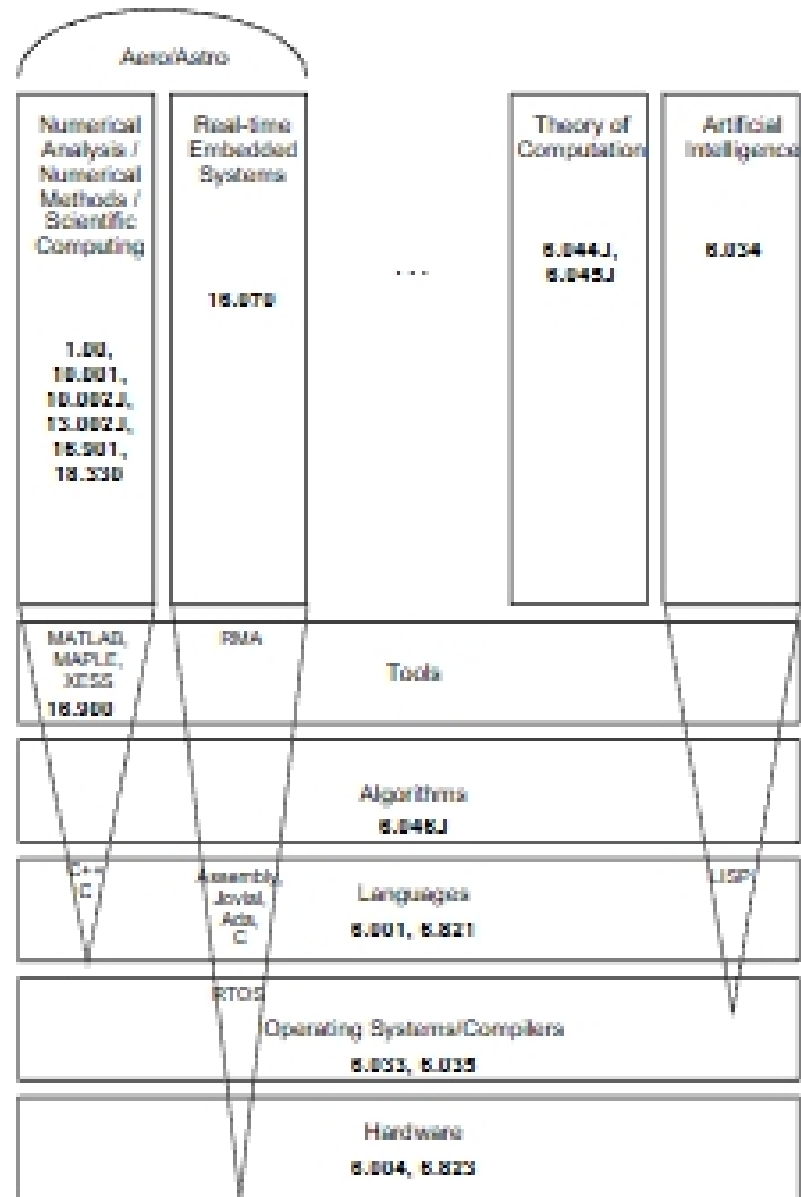


Welcome to 16.070 - Introduction to Computers and Programming for Aero/Astro Majors

- Introductions
- 16.070 as part of the Aero/Astro core curriculum
- Course Objectives
- Administrative Issue -Computer Lab Sessions to be scheduled
- An overview of the role of software in aerospace applications

Course 16.070 vs Other Computer Courses



Course Objectives

- Course objectives set in context of conceive, design, implement and operate aero/astro information systems. Students will be able to
 - Design modular programs using a top-down design approach (CD);
 - Create structured, well-documented computer programs (I)
 - Test and analyze programs to ensure proper program operation (IO)
- Measurable outcomes for this course
 - Demonstration of problem solving employing a methodical software development process [measured by problem sets and exams]
 - Conception and design of applications programs (e.g., simulators and real-time embedded systems) [measured by problem sets and exams]
 - Building, testing and operation of real-time embedded application programs through hands-on experience with a single-board computer [measured by problem sets and demonstration]
 - Demonstration of effective test methods to evaluate and document program execution [measured by problem sets and demonstration]