

W '97

Computer Organization and Architecture II CS 2850

Instructor Libero Ficocelli
Prerequisites CS 2800

Course Content

This course is intended to serve as an introduction to technical programming on IBM PC compatible architecture. The hardware of the *Intel 80x86* series of processors will be dealt with in detail. We will spend the better part of the course programming in assembly language. Topics to be covered will include the standard conditional and control flow constructs, Macros and Procedures, parameter passing and other stack oriented operations, interrupts, string processing as well as basic video operations (text and graphics). We will also deal with interfacing assembly with higher level languages.

The lab portion of the course will provide students with hands on programming experience with *Borland's Turbo Assembler*. Choice of higher level language is restricted to *Borland Pascal* and *C* compilers.

Laboratories

Scheduled Lab facilities for this course are in the A wing computer labs (3rd floor).

Text

Theory **Assembly Language Programming for the IBM PC Family**
 William B. Jones
 Scott Jones Publishers

Lab **Turbo Assembler (Software/Manuals) (optional)**

Marking Lab Quizzes,
 Lab Assignments,
 Homework Assignments : 30%
 Midterm : 25%
 Class Quizzes : 10%
 Final Exam : 35%

Special Notes

1. You will be eligible for a passing grade in this course, only if you obtain 35 out of a possible 70 marks in the **Theory/Concepts** portion of the course.
2. The penalty for late assignments is a 30% deduction for an assignment submitted up to one week late. Any material received after this time period will **not** be assigned a grade.