

**BOROUGH OF MANHATTAN COMMUNITY COLLEGE**

City University of New York

**Department of Computer Information Systems**

**Office S150/Phone: 212-220-1476**

**Assembler Language and Architecture II**

**CSC 410**

**Spring 2008**

**Credits: 3**

**Class hours: 2**

**Lab hours: 2**

**Course Description:**

The students will enhance their knowledge assembler language by writing sophisticated programs utilizing indexing, subroutines and linkage conventions. Also covered are user and system macros, conditional assembly, and file input/output operations. Students will write several assembler language programs in scientific, mathematical and business application areas.

**Prerequisites/Co-requisite:** Basic Skills: ENG 088, ESL 062, ACR094, MAT051;  
CSC 310 or Departmental approval

**Student Learning Outcomes:**

After completing this course, students will be able to:

- to introduce the of organization and structuring of the major hardware components of computers
- to understand the mechanics of information transfer
- to provide the fundamentals of logic design

**Required Text & Readings:**

**Textbook: Assembly Language for Intel-Based Computers, 5<sup>th</sup> Edition**

**Author: Kip R. Irvine**

**Publisher: Prentice Hall**

**ISBN: 0132383101**

**Other Resources:** Two diskettes (DS/HD/) for IBM PS2 /PC Compatibles; Flash drives are recommended.

**Use of Technology (if applicable):**

**Evaluation & Requirements of Students:**

Midterm examination 30%

Final examination 30%

Homeworks 10%

Quizzes 30%

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100%

## **Outline of Topics:**

1. Review of CSC 310
2. Advanced Procedures
3. Strings and Arrays
4. Structures and Macros

\*\*\*\*\* MIDTERM \*\*\*\*\*

5. 32-Bit Windows Programming (Optional)
6. File Processing 16 and/or 32-bit System
7. High-Level Language Interface 16 and/or 32-bit System
8. Disk Fundamentals
9. Expert MS-DOS Programming (Optional)
10. Advanced Topics (1 or more Topics)

\*\*\*\*\* FINAL EXAM \*\*\*\*\*

## **College Attendance Policy:**

At BMCC, the maximum number of absences is limited to one more hour than the number of hours a class meets in one week. For example, you may be enrolled in a three-hour class. In that class, you would be allowed 4 hours of absence (not 4 days). In the case of excessive absences, the instructor has the option to lower the grade or assign an F or WU grade.

## **Academic Adjustments for Students with Disabilities:**

Students with disabilities who require reasonable accommodations or academic adjustments for this course must contact the Office of Services for Students with Disabilities. BMCC is committed to providing equal access to all programs and curricula to all students.

## **BMCC Policy on Plagiarism and Academic Integrity Statement:**

Plagiarism is the presentation of someone else's ideas, words or artistic, scientific, or technical work as one's own creation. Using the idea or work of another is permissible only when the original author is identified. Paraphrasing and summarizing, as well as direct quotations, require citations to the original source. Plagiarism may be intentional or unintentional. Lack of dishonest intent does not necessarily absolve a student of responsibility for plagiarism.

Students who are unsure how and when to provide documentation are advised to consult with their instructors. The library has guides designed to help students to appropriately identify a cited work. The full policy can be found on BMCC's web site, [www.bmcc.cuny.edu](http://www.bmcc.cuny.edu). For further information on integrity and behavior, please consult the college bulletin (also available online).