

COURSE DESCRIPTION

Department and Course Number: CSCI 211

Course Title: Computer Science III

Current Catalog Description: Devices and techniques for conventional file processing, sequential, hashed, indexed organizations; language and operating system support facilities.

Total Credits: 3 hours

Coordinator: Steven Schoenly, Associate Professor of Computer and Information Science

Textbook: Harvey Deitel and Paul Deitel: *Java: How to Program*; Fourth Edition ,Prentice-Hall, 2002; ISBN 0-13-034151-7.

Other required materials: None

References: <http://sbs.cs.olemiss.edu/>

Course Goals: The purpose of this course is to give the student an opportunity to achieve advanced programming skill, focusing on the traditional topics related to file processing. Other important topics such as network programming, Java GUI design, multithreading, and exception handling are covered.

Prerequisites by Topic: Topics of Computer Science I and II (CSCI 111, 112)

Major Topics Covered in the Course:

1. Object-oriented programming
2. String processing
3. Graphical user interfaces
4. File input/output
5. Network input/output
6. Event handling
7. Multithreading

Laboratory projects: The student completes approximately nine programming assignments where each program is due 7 to 10 days after it is assigned. The focus of each assignment is selected from the topics listed above.

Estimate of ABET/CAC Category Content:

	CORE	ADVANCED		CORE	ADVANCED
Data Structures	1	_____	Computer Organization and Architecture	_____	_____
Algorithms	1	_____	Concepts of Programming Languages	_____	_____
Software Design	1	_____		_____	_____

Oral and Written Communications:

Not a significant focus of this course.

Social and Ethical Issues:

Not a significant focus of this course.

Theoretical Content (Foundations):

Not a significant focus of this course.

Problem Analysis and Solution Design

In order to complete each programming assignment, the student must apply a problem analysis and solution design.