



CHIPOLA COLLEGE

COURSE SYLLABUS

COURSE TITLE:

INTRODUCTION TO COMPUTER PROGRAMMING

COURSE NUMBER:

COP 2000

COURSE DESCRIPTION:

A beginning course in computer programming, with an emphasis on the problem-solving process, problem analysis, design decisions, and creative algorithm development. Topics will include organization and structure of computer programs; interface design techniques; algorithm design and development; a survey of programming paradigms; syntax and semantics of specific statements in one or more representative computer languages. 3 semester hours credit. [A]

PREREQUISITES:

Must be eligible to enroll in MAC 1105 or higher mathematics course. The prerequisite may be waived by consent of department for students with appropriate previous coursework or work experience. Contact the course instructor for details.

NAME OF INSTRUCTOR:

Nancy Burns

DATE OF LATEST REVISION:

Aug. 21, 2009

REQUIRED TEXTBOOKS:

Programming with Visual Basic 2008. Julia Bradley and Anita Millspaugh. McGraw-Hill Higher Ed.: 2009. ISBN: 0073517208.

REQUIRED HARDWARE / SOFTWARE

Media for transporting files—eg., USB drive

A computer with the following software:

- Windows XP
- Internet Explorer or other web browser (IE 7.0 or higher)
- Microsoft Visual Studio 2008
- Microsoft Visio

Note: Computers with this configuration are available in on-campus labs. The Information Technology Center (upstairs in library) is available most weekdays and evenings; check the library for exact hours of operation. Students planning to complete assignments using off-campus computers must provide their own software.

Beside the Express Edition of Visual Basic that may be provided with your text or can be downloaded free from Microsoft, copies of the complete Visual Studio suite are available for checkout as part of Chipola's participation in the Microsoft Developer Network Academic Alliance (MSDNAA). See Mr. D. Everett (Office: A 126, Phone: 718-2216). Check the [Microsoft system requirements](#) to verify hardware compatibility.

GRADING POLICIES:

The standing of a student in each course is expressed by one of the following letters and corresponding grading system:

A – 93- 100

B – 83 – 92

C – 70 – 82

D – 60 – 69

F – 59 or less

See your Syllabus Supplement for individual instructor practices.

The Chipola Catalog provides specific information regarding other outcomes from the grading system. A student's Grade Point Average is derived from the grading system/quality point scale.

DISCIPLINE-SPECIFIC COMPETENCIES / LEARNING OUTCOMES:

COP 2000 is not a General Education Core course. However, it does address competence in the Technology Area.

T1 Use a computer to create, save, copy, and print files.

T2 Access and use appropriate software in the content area.

T3 Access, search, and retrieve information from electronic databases and/or the Internet.

STUDENT LEARNING OUTCOMES/OBJECTIVES FOR COP 2000:

See chart, last page.

MEANS OF ACCOMPLISHING OUTCOMES:

- Read and study assigned material from the text;
- Complete practice exercises and daily assignments and submit in a timely manner;
- Pursue independent study using resource materials available in the library (books, periodicals, videos), the Tech Center lab, and any other pertinent source;
- Demonstrate your mastery of the required skills on quizzes, in-class projects, and exams.

LIBRARY AND ON-LINE REFERENCE MATERIALS:

The library is a comprehensive, learning resource center providing information in print, electronic, and multimedia format to support the educational objectives of the College. In addition to print media, online catalogs and resources can be accessed through www.linccweb.org and www.netlibrary.com. Library hours are posted each semester at the building entrance.

Chipola's website is located at www.chipola.edu.

See your Syllabus Supplement for individual instructor recommendations and resources.

TECHNOLOGY RESOURCES:

The Information Technology Center, located in the library, is equipped with computer workstations. Lab hours are posted each semester at the building entrance.

ASSIGNMENT SCHEDULE:

See your Syllabus Supplement for individual instructor assignment schedule.

ATTENDANCE AND WITHDRAWAL POLICIES:

Chipola College expects regular attendance of all students. Students who are absent from classes for any reason other than official college activities must satisfy the instructor concerned that the absence was due to illness or other clearly unavoidable reasons. Otherwise, the student may suffer grade loss at the discretion of the instructor.

Chipola policy allows each instructor to specify in the course handout the attendance policy. It also allows the instructor to decide whether or not an absence is excusable and what effect the absence or tardy may have on the grade.

A student is allowed to repeat a course a maximum of three (3) times. **On the third attempt a student (1) must bear the full cost of instruction, (2) cannot withdraw, and (3) must receive a grade.**

See your Syllabus Supplement for individual instructor or department-specific attendance and withdrawal policy.

MAKE-UP POLICY:

Chipola allows each instructor to specify in the instructor handout the makeup policy.
See your Syllabus Supplement for individual instructor makeup policy

ACADEMIC HONOR CODE POLICY:

Students are expected to uphold the Academic Honor Code. Chipola College's Honor Code is based on the premise that each student has the responsibility to

- 1) uphold the highest standards of academic honesty in his/her own work;
- 2) refuse to tolerate academic dishonesty in the college community; and
- 3) foster a high sense of honor and social responsibility on the part of students.

Further information regarding the Academic Honor Code may be found in the Chipola Catalog, Student Governance section.

STUDENTS WITH DISABILITIES POLICY:

Chipola College is committed to making all programs and facilities accessible to anyone with a disability. Chipola's goal is for students to obtain maximum benefit from their educational experience and to effectively transition into the college environment.

Students with disabilities are requested to voluntarily contact the Office of Students with Disabilities to complete the intake process and determine their eligibility for reasonable accommodations.

LINKING COURSE-LEVEL LEARNING OUTCOMES WITH DISCIPLINE-SPECIFIC COMPETENCIES AND ASSESSMENT METHODS

COURSE-LEVEL STUDENT LEARNING OUTCOMES FOR COP 2000	COLLEGE-LEVEL AND DISCIPLINE- SPECIFIC GENERAL EDUCATION COMPETENCIES*	ASSESSMENT METHODS ** USED BY INSTRUCTOR
The student will:		
describe the process of program design and development using the imperative programming paradigm;		OT
explain how event-driven programming differs from structured programming;		OT
identify computer languages associated with major programming paradigms;		OT
list characteristics of object-oriented languages;		OT
read algorithms in pseudocode and explain the details of algorithm operation in detail;		OT, LA, PROJ
conduct desk-checks and walk-throughs;		LA, PROJ
replicate algorithms and processing techniques covered in class and text assignments		OT, LA, PROJ
identify and correct logic errors in algorithms covered in class and text assignments;		OT, LA, PROJ
identify and correct syntax errors in programming statements covered in class and text assignments;		OT, LA, PROJ
solve programming problems using the imperative programming paradigm;		OT, LA, PROJ
recognize and use standard programming techniques correctly;		OT, LA, PROJ
apply principles of good program and interface design.		OT, LA, PROJ
use the Visual Basic IDE to create, save, test, modify, and print Visual Basic programs	T1, T2	OT, LA, PROJ
locate pertinent web-based resources about Visual Basic, programming, and computer science	T3	LA

* For a list of Chipola's College-Level Competencies, see www.chipola.edu.

**Assessment Method Codes			
OT = Objective Tests	LA = Lab Assignments	SD = Skills Demonstration	PROJ = Projects