

Common Course Outline

CINS 154

Control Language for Mid-Range Computers

3 Lecture Hours per Week

The Community College of Baltimore County

Description

Control Language for Mid-Range Computers

Discusses writing and debugging of AS/400 Control Language (CL) programs using message handling facilities, data queues, data areas, logic statements, program calls, and invocation of asynchronous jobs; uses display files or data base files in programs that will include user-defined commands.

3 credits: 2 lecture hours, 2 laboratory hours.

Prerequisite: CINS 101 or consent of the Program Director or Academic Dean.

Overall Course Objectives

Upon completion of this course the student will be able to:

1. identify the applications requiring Control Language (CL) programming;
2. understand the methodology for writing and debugging Control Language (CL) programs for typical data processing functions; and
3. explain the process for developing Control Language (CL) programs using display or database files and user define commands.

Major Topics

1. The creation of Control Language (CL) programs using, arithmetic, relational, logical expressions, a display file, built-in functions, selective command parameter prompting, concatenation, data areas, date conversion, IF, ELSE, and Do statements, job and user attributes, program parameters, program variables, system values, messages – impromptu/predefined, monitor message commands, message subfiles, and the system reply list.
2. The use of breakpoint and trace to show the statement sequence and controlling values of program values of a given CL program.
3. User-defined commands with and without parameters.
4. Creating a CL program that processes a data base field.
5. Creating and invoking a program that is activated periodically and executes asynchronously from other jobs.
6. Creating a program menu.

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following:

Written tests	50%
Hands-On Exercises	40%
Class Participation	10%

Writing: The individual faculty member will determine specific writing assignments.

Other Course Information

Prerequisite: CINS 101 or consent of the Program Director or Academic Dean

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

Date Revised: 01/25/00