

**BRISTOL COMMUNITY COLLEGE**  
Fall River, Massachusetts  
Spring 2020  
Tuesday, K101, 8:00 to 8:50 am  
SYLLABUS

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## **CIS106 – OPERATING SYSTEM SCRIPTING**

### **COURSE DESCRIPTION**

This course teaches the student how to plan, write and debug scripts for the purpose of automating operating system tasks. Topics include using parameters, performing string comparison tests, piping, input and output redirection, file manipulation, using environment variables, looping, if tests, running a script from a script and using shift. 1-credit, 1 hour of lecture per week. Prerequisite: CIS 121 with a grade of C or better; Co-requisite: CIS 120, or permission of the instructor.

### **STUDENT LEARNING OUTCOMES**

Students who successfully complete Operating System Scripting will be able to:

- Design, develop, test and document batch files to effectively solve computer related problems.
- Effectively generate and control batch file messaging
- Successfully manipulate data extracted from either a command or a text file within a batch file
- Implement IF/Then logic to control the flow of a batch file
- Select and utilize the appropriate loop control to solve a problem which requires repetition.
- Identify and use at least three methods to schedule/automate a batch file

### **TEXTBOOK**

There is no required textbook in this course. On-Line resources will be used.

### **REQUIREMENTS**

The student will be required to complete all assignments. The instructor will generate all assignments. Unless otherwise stated, these assignments will be due two weeks from the date assigned. If an assignment is submitted after the due date, there will be a 15-point deduction from the grade for each week that it is late. Assignments more than 2 weeks late will NOT be accepted.

Each student is *required* to check the class website regularly for any class announcements and posting of assignments.

### **EXAMINATIONS**

A cumulative 2-hour final exam will be given at the end of the course.

## GRADING

Weight of exams and lab assignments:

Final Exam	25%
Homework Assignments	65%
Attendance, Class Participation, Timeliness & Quality of Homework Submissions	10%

Exams, quizzes and lab assignments will be graded on a percentage basis as follows:

A+	=	97 - 100
A	=	94 - 96
A-	=	90- 93
B+	=	87 - 89
B	=	84 - 86
B-	=	80 - 83
C+	=	77 - 79
C	=	74 - 76
C-	=	70 - 73
D	=	60 - 69
F	=	Less than 60

## TEACHING METHODOLOGY

The course is offered in the traditional in-class format as well as in the on-line format. In the on-line format the course website is used to provide all required materials. All communication with the instructor is done via email. Students are encouraged to ask questions via email. The lecture method is used in the in-class format. The student is encouraged to ask questions at any point during the lecture. Instructor demonstrations of procedures being taught will be provided in the classroom. All students are responsible for completing homework assignments on their own time.

## ATTENDANCE

On-line students are required to contact me via email at least once per week. If no contact is made over a period of 4 weeks, the student will receive an F as a final grade.

Face-to-Face students are required to attend class. If 4 weeks of classes are missed, the student will receive an F as a final grade.

## Withdrawal Policy

**Students are responsible for withdrawing officially if they stop attending any or all classes.**

**Faculty no longer have the ability to withdraw a student from a class. A grade of "F" will be assigned to any student who stops attending a course but does not officially withdraw.** Students are encouraged to meet with an advisor before making any changes to their schedule. Withdrawals effect Satisfactory Academic Progress and can place the student at risk for academic probation or dismissal. Students who use financial aid and who subsequently withdraw may be required to return some or all funds received. Withdrawals are accepted until the tenth week of classes of a 14-week semester or an equivalent amount of class time for shorter duration courses (refer to the [Academic Calendar](#) for student-generated withdrawal dates). Students may withdraw online in accessBCC, in person at any Enrollment Center, or via their college email to [enrollmentservices@bristolcc.edu](mailto:enrollmentservices@bristolcc.edu). Email requests must come from the student's BCC college email address and must include the student's name, BCC student ID number, and course information (CRN, course and section number). **Email from non-college**

**accounts will not be accepted.** If a student officially withdraws after the third week of classes, there will be no tuition or college fee refunds. For more information, see the [College Withdrawal Policies and Procedures](#) in the college catalog. Students with questions should contact Enrollment Services via any of the methods mentioned above or at 774-357-2590.

### **Plagiarism Policy (Academic Dishonesty)**

A college community must be established on a foundation of truth and academic integrity. Bristol Community College has an obligation not only to promote these high standards of academic honesty, but also to address academic dishonesty. Academic dishonesty is demonstrated by cheating, plagiarism, and facilitating academic dishonesty.

- Cheating – Includes, but is not limited to: (1) use of any unauthorized assistance in taking quizzes, tests, or examinations; (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or (3) the acquisition, without permission, of tests or other academic material belonging to a member of the College faculty or staff. Cheating shall also include the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgement. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials. Taking credit for work done by another person or doing work for which another person will receive credit. Copying or purchasing other's work or arranging for others to do work under a false name. (Student Handbook)
- Plagiarism – Includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgement. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials. This would also include material that is obtained from the computer. (BCC Student Handbook )
- Facilitating Academic Dishonesty: Students who allow their work to be used by other students or who otherwise aid others in academic dishonesty are violating academic integrity.

Read the policy online: [Academic Dishonesty](#):

### **Disability Statement**

If you are a student who would normally seek accommodations in a traditional, face to face classroom, please speak to me and the Office of Disability Services as soon as possible. You may contact the Office of Disability Services to arrange for appropriate accommodations by calling 508-678-2811--Fall River, ext. 2955; Attleboro, ext. 2996; New Bedford, ext. 4011) or by stopping by L109. You may also contact the Office of Disability Services online at: [Disability Services](#).

***Your commitment:*** For each hour in class, you should plan to put in 2 to 3 hours outside of class. You need to recognize that commitment and include it in your planning.

The course outline includes a TENTATIVE schedule of homework based on previous semesters.

	COURSE OUTLINE		
WEEK #	TOPIC COVERED	Reading	Homework: Each assignment requires the design, creation and successful execution of 4 or 5 batch files. The requirements of the batch files are specified in the assignment. The topics included in each homework assignment coincide with the concepts, commands and tasks covered in class.
1	Course Introductions and Overview <ul style="list-style-type: none"> <li>■ Review of Batch File Basics</li> <li>■ Review of Paths; search, relative and absolute</li> </ul>	Supplemental Materials on site	
2	Replaceable Parameters, Output, Input Redirection and Piping	Supplemental Materials on site	
3	Multiple Commands on a line, conditional characters, standard out and standard error data streams	Supplemental Materials on site	Homework #1 – Replaceable Parameters, find, piping and using variables.
4	Shift Command	Supplemental Materials on site	
5	If Statement: String comparison and Using IF as Loop Control	Supplemental Materials on site	Homework #2 Conditional characters, shift, input validation
6	IF Exist and If ErrorLevel	Supplemental Materials on site	
7	Choice command, IF Else and Nested IF	Supplemental Materials on site	Homework #3 Choice, Errorlevel, Nested IF Statements
8	Set command: create variable, math expression, prompt user	Supplemental Materials on site	
9	SET Command: variable extraction and variable substitution	Supplemental Materials on site	Homework #4 – Variable Manipulation
10	Loop Controls: Loop with Counter,	Supplemental Materials on site	
11	Loop Controls: FOR IN DO /L Call Statement	Supplemental Materials on site	
12	Shutdown, cleanmgr, setx Net User	Supplemental Materials on site	
13	Variable Expansion For / F;	Supplemental Materials on site	Homework #5 FOR loops, Variable Expansion
14	Automating Scripts	Supplemental Materials on site	
15	Lab		