

Course Name: Introduction to PC Operating Systems

Course Number: CNET 173      CRN: 25366-01      RM: 205      Cypress Bldg

Instructor: David Sylvester, Assistant Professor

Email: [sylvesterd@mybrcc.edu](mailto:sylvesterd@mybrcc.edu)

Office Hours: 10:00 – 12:00 MWF

1:30 – 3:30 TTH

Office: Rm. 247, Cypress Bldg  
(255) 216-8152

Days: Wednesday

Time: 6-8:50p

Lecture Hrs. 3

Lab Hrs. 0

Credit Hrs. 3

**Course Description:** Presents an in-depth study of the current operating systems used on personal computers. Studies the theory and concepts of operating systems and will practice the tools provided by the operating systems. Topics include the nature of the personal computer operating systems, control of the systems through the commands, file handling, backup/restore, system tuning and utilities.

**Required Course Material:**

**Book: Operating System Concepts**

ISBN: 978-0-470-12872-5

Author(s): **Abraham Silberschatz**, Peter B. Galvin, Greg Gagne

Students must have regular access to a personal computer system that is Microsoft Windows-based and has an Internet connection.

Students must regularly check their BRCC E-mail and Blackboard accounts (<http://blackboard.mybrcc.edu>).

Prerequisites: CSCI 101 or CSCI 190

Co-requisites: None

**Suggested Enrollment Cap: 20**

**Learning Outcomes:** Upon successful completion of this course, the student will be able to:

- Install, configure, and maintain the operating system
- Perform basic file management operations
- Organize and allocate primary and secondary storage
- Access and control peripheral devices
- Demonstrate the use of utilities
- Describe Operating Systems functions, services, and command structures
- Use specific commands used to control hardware and software setup options
- Know the differences between popular Operating Systems

**Assessment Measures:** Learning outcomes will be assessed through computer-based projects and writing assignments. Students will complete a pre-post survey and:

- Instructor prepared tests, quizzes and final exam
- Student participation
- Homework assignments
- Hands-on applications
- Projects and Report(s)
- Presentation(s)

**Information to be included on the Instructors' Course Syllabi:**

- **Disability Statement:** If any student in this class has a need for accommodations because of a documented disability, please feel free to discuss them with me privately. The college has professionals to guide, counsel, and assist students with disabilities. The Office of Disability Services, located in the Student Center in Room 241, will evaluate and meet with you to discuss your accommodation needs.
- **Student Conduct in Class Policy:** Any acts of classroom disruption that go beyond the normal rights of students to question and discuss with instructors the education process relative to subject content will not be tolerated.

**Grading:** Students are expected to take or submit assignments/tests on the specified due date or as per the instructor's request. Late work may be submitted only 2 days (following class period), after specified deadline, and one letter grade will be deducted from all late work.

Students must have backup copies of assignments at all times. Back-up copies will prevent loss of work due to viruses, damaged disks, etc. All assignments and files must be clearly typed and labeled in their respective folders on your jump drive with the student's name, course name, class time, and specific assignment/project information.

Makeup tests will only be allowed with a doctor's excuse. In unavoidable situations, a student may pre-arrange to take a regularly scheduled test early or at a later date. Makeup tests (if permitted) must be taken within 1 week of the original test date.

- **Communication:** All course and college communication will be via BRCC email addresses. Students are responsible for regularly checking their email. Immediately contact the IT Help Desk in Governor's 229 if there are problems with your email.
- **Safety Concerns:** A student's safety is important in the learning process. Please report any suspicious activity to the Office of Public Safety at 216-8888 and use the red telephones in the halls and classrooms, the outdoor blue light pole phones, or the garage emergency phones located on all floors.

The URL for BRCC's safety information is:

[http://www.mybrcc.edu/index.php?option=com\\_content&view=article&id=202&Itemid=195](http://www.mybrcc.edu/index.php?option=com_content&view=article&id=202&Itemid=195)

If necessary, please exit quickly, and once outside continue to a safe distance away from the building. Take your possessions with you.

- **Library/ Learning Resources:** Since the development of the total person is part of our mission, assignments in the library and/or the Learning Resources Center should be included to assist students in enhancing skills and in using resources. Students should be encouraged to use the library for reading enjoyment as part of lifelong learning.

- ***Student/faculty issues (Division policy) process:***

Students are expected to address classroom issues in a timely manner:

- 1) Talk with the instructor privately.
- 2) If the issue is not resolved, contact the Department Chair.
- 3) Failing to reach a solution will result in the Chair meeting with the Associate Dean.
- 4) If the issue is still not resolved, a discussion between all parties involved will be facilitated by the Dean (student, instructor, chair, associate dean, dean)

**NOTE – All discussions and actions will be documented throughout the process.**

- ***Plagiarism/Cheating***

Plagiarism is defined as using and passing off as one's own ideas, data, or writings of another or presenting as one's own idea or product derived from an existing source.

Cheating is defined as obtaining information through fraud or deceit: either by the use of unauthorized notes, books, or other sources prior to or during examinations, or by using information under false pretenses. It includes premeditated cheating, which is defined as conscious, pre-planned, deliberate cheating with materials prepared in advance.

Students are expected to uphold the school's standard of conduct relating to academic honesty. Students assume full responsibility for the content and integrity shall be that a student's submitted work, examinations, reports, and projects must be that of the student's own work. Students shall be guilty of violating the honor code if they:

1. Represent the work of others as their own.
2. Use or obtain unauthorized assistance in any academic work.
3. Modify, without instructor approval, an examination, paper, record, or report for the purpose of obtaining additional credit.
4. Give unauthorized assistance to other students.
5. Misrepresent the content of submitted work.

The penalty for violating the honor code is severe. Any student violating the honor code is subject to receive a failing grade for the course and will be reported to the appropriate authority. If a student is unclear about whether a particular situation may constitute an honor code violation, the student should meet with the instructor to discuss the situation.

For this class, it is permissible to assist classmates in general discussions of computing techniques. General advice and interaction are encouraged. Each person, however, must develop his or her own solutions to the assigned projects, assignments, and tasks. In other words, students may not "work together" on graded assignments. Such collaboration constitutes cheating. A student may not use or copy (by any means) another's work (or portions of it) and represent it as his/her own. If you need help on an assignment, contact your instructor.

- ***Makeup Tests/Assignments***

Students are expected to take or submit assignments/tests on the date specified on the syllabus or as per the instructor's request. **Late work may be submitted only 1 week after specified deadline, and one letter grade will be deducted from all late work.**

Students must have back up copies of assignments at all times. Back up copies will prevent loss of work due to viruses, damaged disks, etc. **All assignments and files must be clearly typed and labeled in their respective folders on your jump drive with the student's name, course name, class time, and specific assignment/project information.**

Makeup tests will only be allowed with a doctor's excuse. In unavoidable situations, a student may pre-arrange to take a regularly scheduled test early or at a later date. **Makeup tests (if permitted) must be taken within 1 week of the original test date.**

- ***Withdrawing From a Course***

**It is the student's responsibility to withdraw from a course if he/she fails to meet all course requirements (i.e. passing of all quizzes, assignments, exams, and attendance). The last day to withdraw from courses is Friday, March 23, 2012.**

- ***Classroom Rules***

**Do not Shut Down computers or Print without the Instructor's Permission**

**All computers are to be used for CNET 173 course work only. No Games.** Students may follow along with the current lesson on the computer. However, no miscellaneous typing on the computers or talking during lecture and instruction time or while another person is reading aloud.

**Absolutely no talking during test or exam periods (direct all questions to the instructor). Once the test or exam has started, students that do not have their materials for testing may leave quietly to purchase necessary items.**

**No eating or drinking in the computer labs.**

**All cell phones and pagers must be placed on vibrate. Answer all calls outside of the classroom.**

**The instructor reserves the right to make changes at any time without prior notice in an effort to promote the student's learning and understanding of the subject material.**

**LIVE TEXT:**

Live text is an application purchased by BRCC that is used by teachers and students. Everything created in LiveText can be published on the web simply by making the document public. Once public, a document has its own URL and can be viewed by the world. Any document may be published to the WWW. **NOTE: There is a one-time fee for each student that uses LiveText.**

**ATTENDANCE:**

All class assignments are to be done in class. Students are expected to arrive to class on time and remain for the entire class period. Quizzes will begin promptly at the start of the class period. **No make up quizzes.**

**GRADING SCALE:**

A	90 – 100
B	80 – 89
C	70 – 79
D	60 – 69
F	59 and below
I	Incomplete
W	Withdrawal

**GRADING:**

2 Exams (20%)
Mid-Term(10%)
Final Exam (20%)
Projects/Report(45%)
Participation (5%)

**Martin Luther King Holiday (Monday, January 16<sup>th</sup>)**

**Marci Gras Holiday (Monday, February 20<sup>th</sup> thru Wednesday, February 22<sup>nd</sup>)**

**Spring Break (Monday, April 2<sup>nd</sup> thru Saturday, April 7<sup>th</sup>)**

**Final Examination Period**

**Begins - Tuesday, May 8<sup>th</sup>.**

**Ends – Monday, May 14<sup>th</sup>.**

**Commencement: Saturday, May 12<sup>th</sup>.**

**Grades are due by: Thursday, May 17<sup>th</sup>.**

**Addendum to Syllabus**

**TO:** Mr. David Sylvester

**DATE:** \_\_\_\_\_

I have read the syllabus for CNET 173. I understand all the requirements, and intend to fulfill them in accordance with the schedule.

All course and college communication will be via BRCC email addresses. Students are responsible for regularly attending class, signing attendance roster on the [www.SYL9.com](http://www.SYL9.com) site and checking their email and **BLACKBOARD** accounts. Immediately contact the IT Help Desk in Governor's 229 if there are problems with your email or BLACKBOARD accounts.

\_\_\_\_\_  
Student Signature

## Expanded Course Outline:

Week 1	Chapter 1 – Introduction
Weeks 2 & 3	Chapter 2 - Operating-System Structure
Weeks 4 & 5	Chapter 3 – Processes
Weeks 6 & 7	Chapter 4 – Threads
Weeks 8 & 9	Chapter 5 - CPU Scheduling
Weeks 10 & 11	Chapter 6 - Process Synchronization
Weeks 12 & 13	Chapter 7 – Deadlocks
Week 14	Chapter 8 - Main Memory Chapter 9 - Virtual Memory
Week 15	Final