CGS 1761 Computer Operating Systems

Course Syllabus

3 Credits

Fall 2019

Instructor: Professor Wayne Pollock

Phone: (813) 253-7213

Office Location: DTEC-404

E-mail: use the Inbox tool in Canvas

Office Schedule: Open office hours are posted at **wpollock.com/Hours.htm (https://wpollock.com/Hours.htm)** .

Important Dates:

Course Start: Monday 8/19/2019

Course End: Tuesday 12/10/2019

First Assignment(s) Due: 11:59 PM on Wednesday 8/28/2019

This is a Distance Learning course. There are no course meetings scheduled.

All Students must access the course in Canvas and complete the Week 1 (Module 0) assignments/activities by 8/28/2019. Failure to show attendance (login to course) and participation (completion of assignments/activities) in the course by this date will result in withdrawal for non-attendance. The course orientation will introduce you to the course.

Last Date to Drop with Refund: Friday August 23, 2019

Last Date to Withdraw without Refund: Saturday October 26, 2019

Textbook:

*Survey of Operating Systems, **6th edition**, by Jane Holcombe and Charles Holcombe, published 2020 by McGraw-Hill Education.* ISBN: 9781264019489

Canvas and Software:

The course materials are available online; you will need to have a computer that meets the minimum requirements as stated in the Canvas Student Guide and Internet access in order to complete the course.

Students are responsible for accessing Canvas and familiarizing themselves with navigation of the web site. The instructor is not responsible for the breakdown of technology including, but not limited to any of the following: inability to submit assignments, downtime of the Canvas server, operating system breakdowns, incompatible software, Internet connections; nor any personal challenges you may face while dealing with the 'online' delivery system.

You will need access to computer operating systems to complete this course. Many of the assignments can be completed using only a Web browser. Others, however, require you to "poke around" on systems running various operating systems, including Microsoft Windows, Mac OS, or Linux. Ideally, you will have access to one or more computers such that you can install or reinstall operating systems and otherwise reconfigure these systems. Assignments must be written up using Microsoft Word (although compatible applications that save .doc or .docx files will work fine).

COURSE DESCRIPTION

This course provides a basic history and overview of computer operating systems. basic theories, concepts and terminology, and evolution of computer operating systems are covered. Development, function, and comparisons of common mobile, desktop, and server operating systems are discussed. In particular, this class is meant to introduce concepts such as user interfaces, file systems, process management, memory management, input/output management, and communication. **Prerequisite: CGS-1000**

Course Learning Outcomes:

This is a three (3)-credit college level course that will require the average ==student to dedicate approximately 120 hours to successfully complete the course work== (e.g. 8 hours a week during Fall/Spring semesters or 12 hours a week during summer semesters).

Upon successful completion of this course, students will be able to:

1. Define and describe terminology common to computer operating systems.
2. Describe and discuss the evolution of computer operating systems.
3. Describe and discuss basic operating system concepts such as processes and scheduling, memory management, deadlocks, management of input/output devices, file systems, protection, and security.
4. Describe and discuss the interaction of hardware and operating systems.
5. Describe, discuss, and compare the strengths and weaknesses of character-based versus GUI operating systems
6. Describe, discuss, and compare various versions of mobile, desktop, and server operating systems.

Attendance:

You must login into the Canvas server and visit (open) our course at least once a week to verify your continued enrollment in this class. Students receiving federal financial aid may have to return some or all funds if they fail to follow this policy!

Academic Dishonesty:

The Computer Science faculty of the Dale Mabry campus are committed to the highest level of academic integrity for students completing this (or any) course.

Using or submitting another student's file/work will be considered an act of academic dishonesty. Any student determined to have done this will, at the discretion of the faculty member, for the **first offense** will receive a grade of **0 for the assignment**. **Second offense** the student will receive a grade of **F for the course**. At the discretion of the faculty member, she or he may report the incident to the Dean of Student Services for additional disciplinary action.

In addition, any student currently enrolled in this course who provides a student with her or his work for their submission, for the **first offense** will, at the discretion of the faculty member, receive a grade of **0 for the assignment**. **Second offense** the student will receive a grade of **F for the course**. At the discretion of the faculty member, she or he may report the incident to the Dean of Student Services for additional disciplinary action.

Any student determined to have used any resource during an exam other than resources approved by the faculty member, will, at the discretion of the faculty member, for the **first offense** will receive a grade of **0 for the exam**. **Second offense** the student will receive a grade of **F for the course**. At the discretion of the faculty member, she or he may report the incident to the Dean of Student Services for additional disciplinary action.

Students may not work on one file/assignment together and then submit it separately for grading. Any student determined to have done this will, at the discretion of the faculty member, for the **first offense** will receive a grade of **0 for the assignment**. **Second offense** the student will receive a grade of **F for the course**. At the discretion of the faculty member, she or he may report the incident to the Dean of Student Services for additional disciplinary action.

Types and categories of Academic Dishonesty described above are not meant to be inclusive or limiting. Additionally, any combination of above offenses can result in, at the discretion of the faculty member, for the **first offense** receiving a grade of **0 for the assignment**. **Second offense** the student will receive a grade of **F for the course**. At the discretion of the faculty member, she or he may report the incident to the Dean of Student Services for additional disciplinary action.

Plagiarism:

Remember, this is an academic environment. The act of plagiarism is not tolerated.

If you use content from a website in an assignment, you are required to include a citation. It is **never acceptable to cut and paste from a website** for an assignment! Students must paraphrase and write in her or his own words.

A **first offense** of plagiarism will result in a **grade of zero** for the assignment. A **second offense** of plagiarism will result in a **grade of F for the entire course** and, at the discretion of the faculty member; the incident can be reported to the Dean of Student Services for additional disciplinary action.

Communication:

Communication between the instructor and student is a critical success factor in any course. You are to use the Canvas message ("Inbox") function to send messages to the instructor. A response to your email will be received within two working days. Make sure all your communications in this course are polite; be as clear as you can since online communication makes it difficult to tell your tone or facial expression.

Turning in Assignments:

All assignments are due on or before the dates indicated in the course schedule. STUDENTS ARE STRONGLY URGED TO TURN IN ASSIGNMENTS AT LEAST ONE DAY BEFORE THEY ARE DUE (this provides a buffer in case of computer/network/login or other issues—issues of this nature are not excuses for missing assignment, quiz, or exam deadlines).

Please note that the Canvas server will "kick you off" as soon as the predetermined time for the assignment submission has begun, i.e. if the assignment is due by 11:55 p.m., then at 11:55 p.m., even if you are currently uploading your assignment, you will be "kicked off" and the assignment will not be submitted. Time listed for submission is Eastern Standard/Daylight. DO NOT WAIT UNTIL THE LAST MINUTE TO SUBMIT YOUR ASSIGNMENTS! Once the due date has expired, you will not be able to submit the assignments.

All assignment deadlines are Eastern Time Zone. If at any point while taking this course, you are not in the Eastern Time Zone, you can have Canvas show the deadlines based on the time zone you reside in. This is done by changing your Canvas account settings. Please follow the instructions provided in the link below on how to change your time zone in Canvas. **https://community.canvaslms.com/docs/DOC-10622-4212717410**

1. Assignments MUST be submitted using their individual assignment drop boxes (found in the modules).
2. Assignments answered in a <u>thorough</u> and <u>detailed</u> manner (often including screenshots). If your submission gives the impression that you spent just a few minutes on it your assignment's score will be adjusted accordingly.
3. Emailed assignments will NOT be accepted—to be considered for grading assignments MUST be submitted using the assignment drop boxes.
4. Each week's assignment MUST be submitted as a SINGLE Microsoft Word document (.doc or .docx only). This document will contain, in assigned order, your responses to the assigned activities for the week.
5. This single Microsoft Word document must include the following:
   ◦ Your NAME must appear in the document.
   ◦ Your NAME must be included as part of the file's name (for example, a student named Jane Smith might submit a file called, *"Jane Smith Chapter*
   ◦ *4.docx"*).
   Each EXERCISE must be clearly labeled (for example, *"Chapter 4, exercise 2"*).
7. Many assignments require outside research. These must have scholarly sources and those sources must be cited using only MLA or APA format. If you're not familiar with scholarly sources, see these two links: **http://libguides.hccfl.edu/c.php?g=472878&p=3234240** and **https://www.library.illinois.edu/ugl/howdoi/scholarly/**.
   .

8. Assignments must meet **all** of the above criteria to be graded--out of compliance assignments will not be graded and will earn no points.

    Assignments Checklist (be sure to go through this BEFORE turning in each assignment):

☐ Turned in prior to due date/time.

☐ Correct exercises have been done.

☐ Exercises answered in a <u>thorough</u> and <u>detailed</u> manner (not sparse, not terse).

☐ Screenshots provided where appropriate (it's often a good idea to include screenshots to accompany your answers).

☐ Submitted using only appropriate dropbox.

☐ Only **one** file submitted.

☐ File submitted is .doc or .docx format only.

☐ Student name included *as part of* submitted file's name.

☐ Student name present *inside* of submitted file.

☐ Sources are scholarly and cited using only MLA or APA format..

☐ Each exercise plainly labeled.

Late Assignment Policy:

Assignment are due on the dates as listed on the Module Due Date Schedule and/or class calendar; ==NO LATE ASSIGNMENTS== will be accepted. Assignments that have not been submitted by the due date will receive a 0 for the assignments.

Students are expected to keep up with the course work and complete/submit assignment on time. If you do miss a deadline, you should contact your instructor as soon as possible.

Feedback for assignments will be provided as quickly as possible. Every effort will be made to provide feedback within a week of the due-date of some assignment.

Course Exams:

There are **11 required exams**, one for each chapter. (There is also the Practice exam, due for orientation.) The exams are based on the textbook readings. These are administered through Canvas. **No missed exams will be rescheduled**.

You have one attempt for each exam. In addition, exams have a time limit. To do well, you should study before attempting the exams.

Optional Final Exam – May be taken to drop the lowest exam score and is not mandatory to complete. This exam covers the whole course. Students may use the optional final to substitute for a missed exam or to replace a low score on one of the other exams. If the final exam grade is lower than any missed exam, then the score is ignored. If the score is to replace a missed exam, the value is counted into the final course points at the end of the semester.

Grading:

Your grade is determined by how many points you earn during this course. You earn points by successfully completing exams and projects:

	Number	Points Each	Total Points
Exams	11	25	275
Projects	6	50	300
Total Points			575

In addition, there is an optional final exam, and the practice quiz.

If you earn this many points	Your grade will be
517 or more	A
between 460 and 516	B
between 402 and 459	C
between 368 and 401	D
less than 368	F

Academic and Educational Resources:

Please be aware that as a student at Hillsborough Community College you have many academic resources available to you.

Below are few that you may find useful as you progress through this course. Department Open Lab

Computers with all needed software for this course are located in the **Open Lab** in **DTEC 462** (Dale Mabry campus, Technology building, 4th floor).

OPEN LAB HOURS	
Monday – Thursday	8:00am – 10:00pm
Friday	8:00am – 4:30pm
Saturday	8:00am – 2:30pm

Dale Mabry Tutoring Commons

Students can receive tutoring help with difficult concepts and material.

Phone: 813.253.7445

Web Link: **https://www.hccfl.edu/academic-success-centers/dale-mabry/tutoring-and-writing-centers.aspx**

HCC Library

Phone: 813.253.7381

Web Link: **http://www.hccfl.edu/library/**

Dale Mabry Writing Center

Students can receive help with papers, articles, and other types of academic writing.

Phone: 813.253.7536

Web Link: **https://www.hccfl.edu/academic-success-centers/dale-mabry/tutoring-and-writing-centers.aspx**

Dale Mabry Campus Wireless Network

The college provides wireless network connections for students and guests on Dale Mabry campus. For students, select the network "HCC_Wireless" from the list of available networks. Follow the on-screen steps by entering your HCC email address and network password. For HCC guests: Select
"HCC_Guest" from available networks. Follow the on-screen steps to complete registration. This network will be available between 7:00 AM and 10:00 PM. These are the only official HCC networks; don't use others that may appear.

Hawk Alert text messaging

This service allows you to receive important information regarding campus closures or emergencies. You may also sign up for financial aid notifications and registration and payment deadlines. This is a free service, although some fees may be applied by your cellular service provider or plan for text messages.
To sign up, or for more information, visit **www.hccfl.edu/hawkalert** .

Student Assistance Program

HCC's Student Assistance Program offers resources tailored to student life, providing you with the right tools to help you through some of life's toughest challenges. The college has contracted Baycare Health Management to provide free, professional, confidential counseling by telephone and in person. A wide range of topics may be addressed through this program, including mental health counseling, budgeting, and financial concerns. Please call 800-8785470 or email **baycaresap@baycare.org (mailto:baycaresap@baycare.org)** further information.

HCC Live

For MyHCC/Canvas assistance or other general HCC questions, contact

Phone: 1-877-736-2575 (M-F 9:00am-6:00pm)

Live Chat: http://hcclive.hccfl.edu

Help Ticket: **http://hcclive.hccfl.edu (http://hcclive.hccfl.edu)**

Consequences of Dropping or Withdrawing:

Dropping or withdrawing may have an impact on financial aid, veteran's benefits, or international student visa status. Students are encouraged to consult with a financial aid, the VA certifying official, or the international student advisor, as appropriate, prior to dropping or withdrawing from class.

HCC Equity Statement:

Hillsborough Community College (HCC) is an equal employment opportunity and affirmative action employer. HCC does not discriminate based upon race, color, gender (including pregnancy, childbirth or related medical conditions), religion, national origin, age, disability, sexual orientation, marital status, gender identity, gender expression, veteran status, or any other legally protected characteristics. Should you require assistance or an accommodation due to a disability, you may contact Cheryl Seals Gonzalez, Chief Diversity Officer, or Elina "Tina" Bivins, Manager of Equity and Title IX, at (813) 253-7043 or (813) 253-7591, respectively.

Requests for Accommodations:

If, to participate in this course, you require an accommodation due to a physical disability or learning impairment, you must contact the **Office of Services to Students with Disabilities**, Dale Mabry campus: Student Services Building (DSTU) Room 102, voice phone: (813) 259–6035, FAX: (813) 253–7336.

HCC has a religious observance policy that accommodates the religious observance, practices, and beliefs of students. Should students need to miss class or postpone examinations and assignments due to religious observances, they must notify their instructor at least one week prior to a religious observance.

Course Summary:

Date (due by)	Details	
Orientation end	Practice Quiz	due by 11:59pm
	Practice Discussion	due by 11:59pm
	Practice Project	due by 11:59pm
Week 2	Module 1 Quiz	due by 11:59pm
	Project #1	due by 11:59pm
Week 3	Module 2 Quiz	due by 11:59pm
Week 4	Module 3 Quiz	due by 11:59pm
	Project 2-3	due by 11:59pm
Week 5	Module 4 Quiz	due by 11:59pm
Week 6	Module 5 Quiz	due by 11:59pm
	Project 4-5	due by 11:59pm
Week 7	Module 6 Quiz	due by 11:59pm
Week 8	Module 7 Quiz	due by 11:59pm
	Project 6-7	due by 11:59pm
Week 9	Module 8 Quiz	due by 11:59pm
Week 10	Module 9 Quiz	due by 11:59pm
	Project 8-9	due by 11:59pm
Week 11	Module 10 Quiz	due by 11:59pm
Week 12	Module 11 Quiz	due by 11:59pm
	Project 10-11	due by 11:59pm
Last day of term	Optional Final	due by 11:59pm