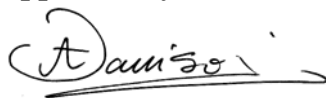


Approved by Chair:



Jan 6, 2020

Signature

COURSE SECTION INFORMATION

IT Essentials

Program Title (If applicable)

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Course Code COMP1151

Course Section

Academic Year Fall 2019/20

Term Winter 2020

Office C467

Out of Class Assistance

Detailed Evaluation System

Assessment Tool:	Description:	Outcome(s) assessed:	EES assessed:	Date / Week:	% of Final Grade:
Lab assignments	8 lab exercises@4%	1,2,3,4,5	1, 2, 4, 5, 6, 8, 9, 10, 11	Weekly	32%
Quizzes	5 quizzes @ 2% Multiple choice and T/F	1,4,5	2, 3, 4, 5, 10, 11	Week 4, 5, 6, 12, 14	10%
Mid Term	Multiple choice and T/F	1,4,5	2, 3, 4, 5, 10, 11	Week 7	25%
Assignment	Individual	1,5,6	2,3,4,5,10,11	Week 14	8%
Final	Multiple choice T/F	1,4,5	2, 3, 4, 5, 10, 11	Week 15	25%
TOTAL:					100%

TOPICAL OUTLINE:

Week	Topic / Task	Outcomes	Content / Activities	Resources
1-2	Overview of desktop computer parts, tools and lab safety	1,2,3	<p>Discuss desktop computer components, form factors and tools</p> <p>Lab 1</p> <ul style="list-style-type: none"> - Documentation standards - Identify computer components - Identify form factors - Ohm's law - Using a multimeter to measure output of a power supply <p>Find power ratings of computer components using the Internet</p>	Blackboard
3-4	<p>Desktop disassembly and assembly</p> <p>Quiz 1 (week 4)</p>	1,2,3,4	<p>Disassemble and assemble desktop computers</p> <p>Labs 2</p> <ul style="list-style-type: none"> - Computer disassembly and assembly - Use BIOS/UEFI to verify successful assembly <p>Quiz 1 covers week 1 and 2</p>	Blackboard
5	<p>Motherboards and types of motherboards</p> <p>Quiz 2 (week 5)</p>	1,2,3,4	<ul style="list-style-type: none"> - Motherboard types and features <p>Labs (3)</p> <ul style="list-style-type: none"> - Use the HWINFO hardware information utility - Examine and adjust BIOS settings - Identify motherboard components - Identify a motherboard and find documentation 	Blackboard

			<ul style="list-style-type: none"> - Examine BIOS/UEFI settings <p>Quiz 2 covers week 3 and 4</p>	
6	Processors, Power and RAM Quiz 3 (week 6)	1,2,3,4	<ul style="list-style-type: none"> - Types and characteristics of processors - Power supply - Memory technologies <p>Labs (4)</p> <ul style="list-style-type: none"> - Choose the right power supply - Use the Sandra hardware information utility - Record CPU temperature and adjust fan speed - Benchmark RAM test using NovaBench <p>Quiz 3 covers week 5 and 6</p>	Blackboard
7	Mid term		Covers weeks 1-6	
8	INTERSESSION WEEK			
9	Hard drives and other storage devices	1,2,3,4	<ul style="list-style-type: none"> - Hard drive technologies - Troubleshooting hard drives <p>Labs (5)</p> <ul style="list-style-type: none"> - Examine your hard drive physically and using the system BIOS/UEFI - Hard drive performance test using HD Tune and manufacturers provided utilities 	Blackboard
10-11	Laptop and mobile devices	3,5,6	<ul style="list-style-type: none"> - Identify laptop components - Identify mobile device components <p>Labs (6)</p> <ul style="list-style-type: none"> - Evaluating laptop and mobile devices components 	Blackboard
12	Virtualization Quiz 4 (week 12)	3,5,6	<ul style="list-style-type: none"> - Introduction to virtualization - Introduction to blade servers 	Blackboard

			<ul style="list-style-type: none"> - Implement and configure virtual machines and hypervisors <p>Labs (7)</p> <ul style="list-style-type: none"> - Identify different virtualization products (Oracle VirtualBox, VMware), contrast features and capabilities - Create virtual machines of Windows and Linux OS. <p>Quiz 4 covers week 9, 10 and 11</p>	
13-14	Hardware technologies in Laptop and basic troubleshooting Revision Quiz 5 (week 14) Assignment	1,3,5,6	<ul style="list-style-type: none"> - Identify hardware technologies in Laptops <p>Labs (8)</p> <ul style="list-style-type: none"> - Troubleshoot memory problems using 'Memtest86' - Troubleshoot with TCP/IP utilities - Diagnose simple hardware boot problems <p>Quiz 5 covers week 12-13</p>	Blackboard
15	Final exam		Cover weeks 9-14	
<p>Please note: this schedule may change as resources and circumstances require. For information on withdrawing from this course without academic penalty, please refer to the College Academic Calendar: http://www.georgebrown.ca/Admin/Registr/PSCal.aspx</p>				