

Recommended Text: **Information Technology for CSEC Examinations 3rd Edition** (Howard Campbell and Alan Wood)

Prepared by: Mr. Teesdale

September – December 2022 Term 1			
Hardcover 8 ½" X 11" notebook required for all classes			
Week	Topic	Modules	Required Reading
1 Sept. 5 th – Sept. 9 th	Problem Solving and Program Design	Course Introduction Problem Decomposition	pg 253 - 254 Table 9.2 pg 254 Table 9.3 IPOS chart pg 257 Fig. 9.3 pg 256 (The bicycle)
2 Sept. 12 th – Sept. 16 th	Problem Solving and Program Design	Definition of an Algorithm Characteristics: finite number of steps, precise, unambiguous, flow of control from one process to another, terminate. Programming Logic Examples 1.) Sequential Logic 2.) Repetition Logic 3.) Decision Logic	pg 253, pg 260 – 261 pg 263 - 267 (characteristics)
3 Sept. 19 th – Sept. 23 th	Problem Solving and Program Design	Online Coursework Assessment	Review Pg 253-257 pg 260 – 261 pg 263 - 267
4 Sept. 26 th – Sept. 30 th	Problem Solving and Program Design	Representing Algorithms <ul style="list-style-type: none"> Flow Charts Sequential Logic Decision Logic <ul style="list-style-type: none"> IF-THEN Relational Operators 	pg 255 – 259 pg.270 – 271 pg 260 – 261 pg.270 - 273
5 Oct. 3 rd – Oct. 7 th	Problem Solving and Program Design	Representing Algorithms <ul style="list-style-type: none"> Flow Charts IF-Then-Else NESTED IF-Then-Else Test an algorithm (Trace Table, Dry-Run, Desk-Check) 	pg 276 - 277

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Week	Topic	Modules	Required Reading
6 Oct. 10 th – Oct. 14 th	Problem Solving and Program Design	Worked Examples – Flow Charts Online/Written Coursework Assessment Mid-Term marks due	See all previous notes
7 Oct. 17 th – Oct. 21 st	Problem Solving and Program Design	Representing Algorithms <ul style="list-style-type: none"> • pseudocode • Repetition Logic <ul style="list-style-type: none"> ○ PRE-TEST Loop (while) • Relational Operators • Logical Operators 	pg 255 – 259 pg.270 – 271 pg 260 – 261 pg.270 – 273 pg 274
8 Oct. 24 th – Oct. 28 th	Problem Solving and Program Design	Representing Algorithms <ul style="list-style-type: none"> • Pseudocode • Repetition Logic <ul style="list-style-type: none"> ○ POST-Test Loop <ul style="list-style-type: none"> ▪ Repeat...Until Test an algorithm (Trace Table, Dry-Run, Desk-Check)	pg 276 - 277
9 Oct. 31 st – Nov. 4 th	Problem Solving and Program Design	Online Coursework Assessment	See all previous notes
10 Nov. 7 th – Nov. 11 th	Problem Solving and Program Design	Worked Examples – Flow Charts and PSEUDO CODE	See all previous notes
11 Nov. 14 th – Nov. 18 th	Exam Review	End-of-Term Exam Review	See all previous notes

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January – March 2023 Term 2			
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Week	Topic	Modules	Required Reading
1 Jan. 2 nd – Jan. 6 th	C- Programming Language	Getting started with C-Programming	https://www.tutorialspoint.com/cprogramming/c_program_structure.htm
2 Jan. 9 th – Jan. 13 th	C- Programming Language	Primitive Data types (int, float, char, bool) a. Variables and Constants b. Request for Data, Input Data, Output Data	https://www.tutorialspoint.com/cprogramming/c_variables.htm https://www.tutorialspoint.com/cprogramming/c_input_output.htm
3 Jan. 16 th – Jan. 20 th	C- Programming Language	Mathematical operators (including integer division and modular division)	https://www.tutorialspoint.com/cprogramming/c_operators.htm
4 Jan. 23 rd – Jan. 27 th	C- Programming Language	Online/Written Coursework Assessment	See all previous notes
5 Jan. 30 th – Feb. 3 rd	C- Programming Language	Decision Logic a. IF-THEN b. IF-THEN-ELSE	https://www.tutorialspoint.com/cprogramming/c_decision_making.htm
6 Feb. 6 th – Feb. 10 th	C- Programming Language	Decision Logic a. NESTED Conditions	https://www.tutorialspoint.com/cprogramming/c_decision_making.htm

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Week			
7 Feb. 13 th – Feb. 17 th	C- Programming Language	Online/Written Coursework Assessment	See all previous notes
8 Feb. 20 th – Feb. 24 th (carnival week)	C- Programming Language	Challenge problems	See all previous notes
9 Feb. 27 th – Mar. 3 rd	C- Programming Language	Repetition Logic <ul style="list-style-type: none"> • WHILE 	https://www.tutorialspoint.com/cprogramming/c_while_loop.htm
10 Mar. 6 th – Mar. 10 th	C- Programming Language	Repetition Logic <ul style="list-style-type: none"> • FOR 	https://www.tutorialspoint.com/cprogramming/c_for_loop.htm
11 Mar. 13 th – Mar. 17 th	C- Programming Language	Repetition Logic <ul style="list-style-type: none"> • Do...WHILE Online/Written Coursework Assessment	https://www.tutorialspoint.com/cprogramming/c_do_while_loop.htm
12 Mar. 20 th – Mar. 24 th	C- Programming Language	End Of Term marks due	All previous notes
Week	Topic	Modules	Required Reading
13 Mar. 27 th – Mar. 31 st	C- Programming Language	Challenge problems <ul style="list-style-type: none"> • Decision Logic • Repetition Logic 	All previous notes

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April – July 2023 Term 3			
Hardcover 8 ½" X 11" notebook required for all classes			
Week	Topic	Modules	Required Reading
1 Apr. 17 th – Apr. 21 st	C- Programming Language	Program Organization <ul style="list-style-type: none"> Intro to Functions for code reuse <ul style="list-style-type: none"> No return values (void) Local variables only 	https://www.tutorialspoint.com/cprogramming/c_functions.htm
2 Apr. 24 th – Apr. 28 th	C- Programming Language	Program Organization <ul style="list-style-type: none"> Intro to Functions for code reuse <ul style="list-style-type: none"> Return values (int) Local variables only 	https://www.tutorialspoint.com/cprogramming/c_functions.htm
3 May. 1 st – May. 5 th	C- Programming Language	Challenge problems <ul style="list-style-type: none"> Decision Logic Repetition Logic Functions 	All previous notes
4 May. 8 th – May. 12 th	C- Programming Language	Online/Written Coursework Assessment Mid-Term Marks Due	All previous notes

Week	Topic	Modules	Required Reading
5 May. 15 th – May. 19 th	C- Programming Language	Intro. Data Structures: ARRAYS <ul style="list-style-type: none"> Declare an Array Store value to an array location Retrieve value from an array location 	https://www.tutorialspoint.com/cprogramming/c_arrays.htm
6 May. 22 nd – May. 26 th	C- Programming Language	Challenge problems <ul style="list-style-type: none"> Decision Logic Repetition Logic Functions Arrays 	https://www.tutorialspoint.com/cprogramming/c_arrays.htm
7 May. 22 nd – May. 26 th	C- Programming Language	End of Year Review and PROJECT	All previous notes

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8 May. 29th – June 2nd	Review	End of Year Review and PROJECT	All previous notes
9 June 5th – June 9th	Review	End of Year Review with PROJECT FINAL PROJECT SUBMISSION	All previous notes
10 June 12th – June 16th	Review	End of Year Review	All previous notes

End of Year Exams begin June 20th, 2023