SET 151 C Programming 1

Course Description: An introduction to the C and C++ computer programming languages. Topics include: decision statements, loops, functions, arrays, strings, pointers, and simple classes.

Prerequisites(s): IT 101 **Corequisite(s):** No corequisite

Lecture Hours: 2	Lab Hours: 3	Credit Hours: 3
Lab Fee: 105	Supplemental Fee: 0	Purpose:
☐ Transfer Assurance Guide Course (TAG)	☐ Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: □ Web	□ Hybrid	X Classroom
Semesters Offered: □ Fall	X Spring	X Summer

Course Primary Text:

Title: C Primer Plus	Edition: 5th
Author(s): Stephen Prata	
Publisher: SAMS Publishing	

Supplemental Materials:

Course Outcomes:

1	Know and understand the syntax of the C programming language.
2	Know and understand how to use decision statements.
3	Know and understand how to use loops.
4	Know and understand how to make and use procedures.
5	Know and understand how make, use and manipulate strings (character arrays).
6	Know and understand how to pass parameters by value and by reference with pointers.
7	Know and understand how to pointers.
8	Know and understand how to dynamically allocate memory.

Course Topics:

Week 1	Introduction Visual Studio. The main procedure, variables, constants, output with printf and input with scanf.
Week 2	Loops and decision statements.
Week 3	Lab.

Week 4	Procedure and parameters.
Week 5	Procedure and parameters continued. Test #1.
Week 6	Arrays of numbers.
Week 7	Strings (character arrays) and string functions.
Week 8	Lab.
Week 9	Strings (character arrays) and string functions continued. Structures.
Week 10	Lab. Test #2.
Week 11	Lab.
Week 12	Pointers and dynamic memory allocation.
Week 13	Lab.
Week 14	Strings with pointers and dynamic memory allocation.
Week 15	Lab. Test #3.

Methods of Evaluation/Assessment

Test#1	15%
Test#2	15%
Test#3	15%
Quizzes	10%
Homework	45%

Course Keeper: Robert Nields

Date Completed: 4/1/2019