Course name	ECE 26400 Advance C Programming
Credit and contact hours	(3 cr.) Class 3
Course coordinator's name	Brian King
Textbook	<i>C Primer Plus</i> , 6 th Ed., by Stephen Prata, Pearson Publishing, 2014, ISBN: 9780321928429
Course information	ECE 26400 Advanced C Programming (3 cr.) Class 3. Continuation of a first programming course. Topics include files, structures, pointers, and the proper use of dynamic data structures. Basic knowledge of the UNIX operating system and an introductory C programming course. C programming knowledge should include basic syntax, control structures, and file I/O, as well as experience in declaring and using functions.
	 P: basic knowledge of the UNIX operating system and introductory to C programming course. Required, Elective, or Selected Elective: EE Elective, CE Elective
Goals for the course	 Upon successful completion of the course, students should be able to 1. Read and write C programs that use pointers [1,2,6] 2 Read and write C programs that use structures [1,2,6] 3 Read and write C programs that use files [1,2,6] 4 Read and write C programs that use dynamic data structures [1,2,6]
List of topics to be covered	 Overview of C Data types (simple and structured) The use of pointers Dynamic memory management Linked lists and trees Recursion Binary I/O Random number generation
Syllabi approved by	Brian King
Date of approval	8/27/2021
Date of approval	0/27/2021