CS 240 Programming in C

Location: Wheatley W01-0005   Time: TuTh 2 – 3:15 pm   Date: Sep. 3 – Dec. 13, 2019

Instructor & TA:

- Xiaohui Liang, Xiaohui.Liang@umb.edu
- Office location/hour: Science building 3rd floor Room 80, TuTh 1– 2:00 pm
- TA1: Haoyu Wang, Haoyu.Wang001@umb.edu,
- TA1 office location/hour: Science building 3rd floor Room 70, Mon 4:15-5:15, Fri 12-1
- TA2: Anh Vo, Anh.Vo003@umb.edu,
- TA2 office location/hour: Science building, 3rd Floor, Room 124, Mon/Wed 12-1;

Supplemental Instruction:

- Mon & Wed 11–11:50 am, (Mon) M-2-420 McCormack Hall, (Wed) Y-04-4100 University Hall
- Joyce Quach, Joyce.Quach001@umb.edu

Course materials:

- **(Book) The C Programming Language, 2nd Ed., Kernighan & Ritchie**
- (Book) LINUX for Programmers and Users, 1st Ed., Glass & Ables
- 25 Lecture slides + 7 home works + 3 exams + code examples + some notes

Grading scheme: 10 per homework * 7 + 15 per exam * any 2 of 3 exams

Homework:

- Hand in hardcopies to me in Class before deadline. Homeworks are graded by the TA
- Save e-copies in our Unix server for backup

Course platforms:

- CS Unix server (for programming): obtain remote access, and write and run programs
- Piazza (for discussion): sharing course materials + polls + QA + announcements
- Blackboard: grades + lecture videos

Week 1	9.3	L1. Introduction + Programming environment	
	9.5	L2. Hello program + Homework 1	Hw1
Week 2	9.10	L3. Compiler + For program	
	9.12	L4. Copy program + stdio	
Week 3	9.17	L5. Counting program + Integer array + end of line character	
	9.19	L6. Maxline program + Character array + function + operator precedence	Hw2, Hw1 due
Week 4	9.24	L7. Octal dump + Integer + Characer + String	
	9.26	L8. Debugging + Pseudocode + Homework 2	
Week 5	10.1	L9. Memory + Pointer + Call by Reference	
	10.3	L10. Review + Homework 2	
Week 6	10.8	L11. Scope of Variable	
	10.10	L12. Review Variable + Steps to Write codes + Homework 3	Hw3, Hw2 due
Week 7	10.15	L13. Review Control Statements + Binary Search	
	10.17	Review of Exam 1	
Week 8	10.22	Exam 1	
	10.24	L14. Header file + Makefile	
Week 9	10.29	L15. Homework 3	
	10.31	L16. Reverse Polish Notation + Homework 4	Hw4, Hw3 due
Week 10	11.5	L17. Pointers + Arrays	
	11.7	L18. (Hard) Pointer arithmetic + Array + Pointers + Argument	
Week 11	11.12	L19. Memory Allocation + Free + Homework 5	
	11.14	Review of Exam 2	Hw5, Hw4 due
Week 12	11.19	Exam 2	
	11.21	L20. Struct + Struct array_pointer	
Week 13	11.26	L21. Self-referential struct	
	11.28	L22. Review memory and practice questions	Hw6, Hw5 due
Week 14	12.3	L23. (Hard) Table lookup + typedef + union.pptx	
	12.5	L24. (Hard) Scanf and Printf + Multi-dimensional array and Macro	Hw7, Hw6 due
Week 15	12.10	L25. Homework 7	
	12.12	Review of Exam 3	Hw7 due