



2	X	X	X						X	X		
3	X	X	X						X	X		
4	X	X	X						X			
5	X	X	X						X	X		
6	X	X	X						X	X		
7	X	X	X						X			
8	X	X	X						X			

**Prerequisite by Topic:**

Arrays, Pointers, Object-Oriented Programming Concepts, Sorting Algorithms, Searching Algorithms, Analysis of Algorithm

**Major Topics Covered in Course:**

Object-Oriented Design	2 wks
Complexity Analysis	1 ½ wks
Linked Lists	2 wks
Stacks and Queues	2 wks
Recursion	1 wk
Binary Trees	2 wks
Graphs	2 wks
Hashing	1 wk
Quicksort	½ wk
HeapSort	½ wk
Mergesort	½ wk

**Laboratory Projects:**

Students will be required to write programs that will touch all major topics covered in course, some of the laboratory projects will include multiple topics when topics can be combined.

Estimated CSAB Category Content		
	Core	Advanced
Data Structures	2	
Algorithms	1	
Computer Organization & Architecture		
Concepts of Programming Languages		
Software Design		

**Oral and Written Communications:**

Student will be required to write small 1-2 page papers regarding topics/developments in computer science.

**Social and Ethical Issues:**

No Component

**Theoretical Content:**

Algorithm Design

Object Oriented Design

**Problem Analysis & Solution Design:** Students will be given problem descriptions in which they have to come up with a correct design. They will also compare designs with known designs and determine most efficient.

<b>Grading Scale:</b>		<b>Course Evaluation:</b>	
90 – 100	A	Assignments	20%
80 - 89	B	Quizzes/Homework	25%
70 - 79	C	Exams	50%
60 - 69	D	Paper	5%
59 - below	F		

**Homework/Lab Assignments:** All assignments must be completed and handed in on time at the beginning of class. Make sure you following the format guidelines required for each assignment. I will not accept a partially completed assignment. Also, 10 points will be deducted for each class day that work is turned in late. After 3 days being late, work will not be accepted. Exceptional circumstances should be discussed with the instructor in advance.

**Attendance Policy:** Attendance is required. Please make every effort to arrive on time! After 5 minutes of the schedule start time of the class, the door will be shut and you will not be allow to enter, thus receiving an unexcused absent for that day. The class roll will be recorded/documentated every class session. Sign the roll with you signature. Do not print and do not sign another student's name. I count the number of students every class period. For every 4 unexcused absents, you will receive a letter grade drop. In an event of an absent, you must provide valid documentation base on the university's requirements in order for the absent to not count against you. Students who wish to discontinue the class should officially drop the course; otherwise a grade of "F" will be recorded.

**Student Code of Conduct/Civility:** Full details may be obtained from the Student Handbook. At a minimum, I expect you to treat each other (and your instructor) politely and with respect. This includes turning off all cell phones (or muting them), participating in class, and arriving in a timely manner. Cell phones/iPods/multimedia devices are to remain in your bags or pockets and should not be visible at any time during the class/lecture/lab hours. No laptop use in the classroom during class hours unless instructed to use them. Please remember that personal conversations during lecture and lab time are distracting to your fellow students and instructor, thus they are not permitted. Collaboration on a project is an exception, of course.

**Cheating, Plagiarism/Academic Integrity and Penalties**

Any student who submits another student's work as their own will have committed the act of plagiarism. This includes programming assignments and papers. Cutting and pasting from another paper (from web) without giving proper credit to the author of the original paper will be considered plagiarism. Copying parts of another student's paper and programming assignments is also considered plagiarism. The student receives an automatic F on that paper/assignment if it is plagiarized. If the student commits the act of plagiarism a second time, then the student will receive an F grade for that class.

**Student with Special Needs:** Mississippi Valley State University is committed to providing reasonable accommodations for students with a documented disability. If you feel you are eligible to receive accommodations for a covered disability (medical, physical, psychiatric, learning, vision, hearing, etc.) and would like to request it for this course, you must be registered with the Services for Students with Disabilities (SSD) program administered by University College. It is recommended that you visit the Disabilities Office located inside the EMAP Computer Lab in the Technical Education (IT) Building to register for the program at the beginning of each semester.

For more information or to schedule an appointment, please contact Mr. Billy Benson, Jr. via phone or email at 662-254-3005 or [billy.benson@mvsu.edu](mailto:billy.benson@mvsu.edu).

I reserve the right to make changes on this syllabus as needed. This document does not constitute a contract with the University. It contains guidelines.