

4. Identify different classification of computers
5. Understand the basic components of a computer system
6. Communicate the results of research of a famous computer scientist.

Course Outcomes	P0 1.1	PO 1.2	PO 1.3	PO 2.1	PO 2.2	PO 2.3	PO 3.1	PO 3.2	PO 3.3	PO 3.4	PO 3.5
1		x		x							
2								x		x	
3		x					x				
4		x									
5		x									
6									x		

Prerequisite by Topic:

None

Major Topics Covered in Course:

Introduction	(3 hours)
Introduction to Programming	(3 hours)
Data Representation	(5 hours)
Developing a Program	(4 hours)
Selection Structures: Making Decisions	(3 hours)
Repetition Structures: Looping	(3 hours)
More about Loops and Decisions	(3 hours)
Arrays: Lists and Tables	(3 hours)
Searching and Sorting Arrays	(4 hours)
Program Modules, Subprograms and Functions	(3 hours)
Sequential Data Files	(3 hours)
Object Oriented and Event Driven Programming	(5 hours)

Laboratory Projects:

Using a search engine to find advances in computer science	(1 hour)
Network Protocols	(2 hours)
Computing Applications	(2 hours)
Object-Oriented Design	(2 hours)

Estimate ABET Category Content		
	Core	Advanced
Data Structures	.5	0
Algorithms	.5	0
Computer Organization & Architecture	.5	0
Concepts of Programming Languages	1	0
Software Design	.5	0

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:

Students will be required to write 1-2 papers regarding ethical issues in computer science. Students will also be lead in discussion about ethical issues such as peer-to-peer file sharing, encryption, email privacy, software piracy, hacking and spam.

Theoretical Content:

- Data Representation
- Algorithm Design
- Object Oriented Design
- Computer Organization

Problem Analysis & Solution Design:

Students will develop algorithms to complete a given task using general software design techniques.

- Students will design a personal website using html.
- Students will also use Object-Oriented Design to accomplish a set of task using ALICE.

Grading Scale		Course Evaluation:	
90 - 100	A	Quizzes and tests	30%
80 - 89	B	Assignments and Programs	40%
70 - 79	C	Final examination	20%
60 - 69	D	Attendance and participation	10%
59 and below	F	**Cheating on exams will result in course failure**	

Attendance Policy: Students are required to attend classes on a regular basis. Three (3) unexcused absentees will result in the lowering of grades. Three tardies constitute one absentee. In addition, class participation and performance also constitutes an integral part of the assessment process.

Late/Missed Assignments: Each student must present a valid excuse for absences for which they wish to receive an official absence. Tests missed with an excused absence will be made up by doubling the grade on the following test. Late assignments will receive an automatic one-half reduction in point value during the 1st half of the semester. No late assignments will be accepted during the 2nd half of the semester.

Cheating and Plagiarism: Copying, and/or cheating of any kind will not be tolerated. Any student who submits another student's work as his or her 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.

Any infraction will result in a grade of F, along with the student being reported to the appropriate disciplinary committee and the Dean of Student Affairs.

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.