

MIS 3300
Introduction to Computer Architecture and Programming
Fall, 2014



COB Vision

Our vision is to be recognized as the business college of choice for undergraduate and masters programs among public business colleges in Arkansas and the region, with national recognition in selected fields or areas.

COB Statement of Mission and Core Values

Our mission is to provide high quality business education to our undergraduate and graduate students through the delivery of a current, responsive, and innovative curriculum that promotes intellectual and professional development. We promote excellence through our scholarly endeavors and service to our stakeholders through strong engagement with the local, regional, national, and global business community.

In carrying out this mission, the College of Business is guided by the following core values and expects the following outcomes:

1. Intellectual Excellence.

- 1.1. Educate students: We promote intellectual and professional development of students by emphasizing communication, critical and analytical thinking, collaboration, information management and a broad exposure to key business disciplines.
- 1.2. Scholarship: We believe that faculty and students should engage in professional development and scholarly endeavors that promote and impact the application, creation and dissemination of knowledge through contributions to business practice, learning and pedagogical research, and discipline-based scholarship.
- 1.3. Cultural competence: We maintain and develop current and responsive curriculum that prepares students for the global business environment through broad exposure to key business disciplines.
- 1.4. Physical learning environment: We strive to provide a physical infrastructure with appropriate technology that provides an environment in which our students and faculty can thrive professionally and intellectually.

2. Community.

- 2.1. Collegiality: We encourage transparency in our decision making practice through a process of shared governance based on interactions among faculty, staff, and students.
- 2.2. Service: We pursue collaborative partnerships between our internal and external stakeholders to impact and promote life-long and experiential learning, research, service, and community engagement.

3. Diversity.

3.1. We value the opportunity to work, learn, and develop in a community that embraces the diversity of individuals and ideas.

4. Integrity.

4.1. Ethics: We are committed to ethical and responsible behavior in our own actions and to developing the same commitment in our students by promoting the awareness of professional ethical responsibilities.

4.2. Responsibility: We commit to being responsible and accountable in our operations at all levels, including assessment and continuous improvement of our academic programs and transparency in our fiscal and operational proceedings.

Learning Goals

Our graduates shall possess:

1. Critical Thinking & Analytical Thinking Skills;
2. Awareness of the Global Business Environment;
3. Ethical Reasoning Abilities;
4. Effective Communication Abilities;
5. Effective Collaborative Skills;
6. Effective Information Management Skills;
7. Understanding of a Broad Range of Business Disciplines.

Course Syllabus

Course Information

Course Number: MIS 3300	
Course Name: Introduction to Computer Hardware and Programming	
CRN: 18827	
Semester: Fall, 2014	
Location: 302 College of Business	
Class Hours: 10:50 - 12:05 TTh	

Instructor Information

Name: Steven Zeltmann, Ph.D.	
Office Location: 305N College of Business	
Work Email: stevenz@uca.edu	
Phone: 501-450-5326	
Office Hours: MW 12 – 4, TTh 1:30 – 2:30	

Prerequisites:

None.

Textbook and Instructional Materials Required:

1. Introduction to Computer Architecture and Programming, second edition by Steven M. Zeltmann, Yale N. Patt, and Sanjay J. Patel, McGraw-Hill Publishing, 2009.
2. Acquire an inexpensive flash drive for this class. You will turn the flash drive in with your programming assignments at the end of the class.

If your copy of the text does not include the CD, you can download the LC-2 software from:

<http://www.mhhe.com/engcs/compsci/patt/lc2unix.mhtml>

Be sure to download the PC version!

Course Description:

MIS 3300 provides the student with an introduction to the inner workings of digital computers from both a hardware and a software perspective. The hardware focus is primarily from the perspective of the central processor and primary memory. The software focus builds from elemental machine language through assembly and the C programming language. MIS 3300 is not intended to replace a course in C programming and, in fact, is recommended as a primer to the study of any high-level programming language.

Course Objectives:

CLASS ORGANIZATION:

CLASS RIGOR AND ATTENDANCE:

Students respond to this class in different ways. A few students pick up the concepts easily, but this class requires significant study and practice for most students. Students who fail to keep pace with the class almost always do poorly.

Attendance is important because your work builds on previous efforts. If you think classes might be cancelled because of weather, check the UCA TODAY link at WWW.UCA.EDU or call 852-4636 for a message – do not make any assumptions. Attendance will be taken and recorded.

Course Delivery Method:

Primarily lecture and discussion of chapters and homework assignments.

Grading:

Grades will be assigned according to the following scale:

- A. $\geq 90\%$
- B. $\geq 80\%$ and $<90\%$
- C. $\geq 70\%$ and $<80\%$
- D. $\geq 60\%$ and $<70\%$
- F. $< 60\%$

This scale might be relaxed for students close to the next letter grade but never tightened.

Description of Major Deliverables/Course Requirements:

Exams, assignments, and homework will all be assigned in this class. You will be responsible for all material presented in class, so a good set of class notes will be helpful. You are welcome to audio record lectures for later reference.

Quizzes may be given, in part, to reward attendance. Accordingly, no make-up quizzes will be given. Late homework will be accepted with penalty.

We will proceed through the text from chapter 1 through chapter 12. The first exam will cover module I material from chapters 1 through 4, the second exam will cover module II material from chapters 5 through 8, and the third exam will cover module III material from chapters 9 through 12 **plus** some comprehensive material from the first two modules.

A longer, more comprehensive final exam will be given to those students who miss one of the first two exams. That score will count for both exam 3 and the missed exam. Students who miss both of the first two exams will need to drop the class.

The third exam and the final exam are both given during the final exam period. Students who have scores for the first two exams will take only exam 3 unless they notify me by e-mail that they wish to take the final instead. The final will replace the lower of the first two exam scores only if it helps improve the exam average. However, the final is also longer and in more depth than exam 3, so this should be considered before choosing this option. Students who miss one of the first two exams are required to take the final which will count as both exam 3 and the missed exam.

The course grade will be based primarily on the average of the three exam grades. If the average of the three exam scores is close to the next letter grade, then group contribution, quiz scores, assignments, and attendance are considered to determine the letter grade.

No make-up exams will be given except the final exam. As stated above, students who miss **both** exam 1 and exam 2 are required to drop the class.

The exams will consist of multiple choice questions with an extra-credit opportunity that is not multiple choice. The extra-credit opportunity will be a problem, a short program, or a short essay type question.

Exams are graded and returned the next class period unless something very unusual occurs. You are encouraged to ask questions about anything on the exam as it is reviewed. Exams should not only test your knowledge, but should also be a learning experience themselves. Plan to attend the exam review because exams are not available to students after the review.

Class Schedule:

A sample class schedule is attached. This schedule is subject to change as the term progresses. Assignments, exams and chapter coverage will all be announced in class and that will become the official class schedule.

Evaluations (Fall & Spring)

Student evaluations of a course and its professor are a crucial element in helping faculty achieve excellence in the classroom and the institution in demonstrating that students are gaining knowledge. Students may evaluate courses they are taking starting on the Monday of the twelfth week of instruction through the end of finals week by logging in to myUCA and clicking on the Evals button on the top right.

Policies and Procedures:

Attendance and Drop policies: Attendance is taken and recorded. If you think classes might be cancelled because of weather, check the UCA TODAY link at WWW.UCA.EDU or call 852-4636 for a message – do not make any assumptions.

Assignment Submission: Assignments are accepted late with penalty.

Makeup Exams: No makeup exams are given. See the discussion of the exams above.

Classroom Policies:

- No food is allowed in the classroom.
- Drinks are acceptable if they are in a securely covered container (bottle with a seal cap).
- If you have a drink please take your bottle with you when you leave.
- Please silence your telephone before you enter class.
- Electronic devices including cell phones are not allowed during exams or reviews.

Academic Integrity Statement:

The University of Central Arkansas affirms its commitment to academic integrity and expects all members of the university community to accept shared responsibility for maintaining academic integrity. Students in this course are subject to the provisions of the university's Academic Integrity Policy, approved by the Board of Trustees as Board Policy No. 709 on February 10, 2010, and published in the Student Handbook. Penalties for academic misconduct in this course may include a failing grade on an assignment, a failing grade in the course, or any other course-related sanction the instructor determines to be appropriate. Continued enrollment in this course affirms a student's acceptance of this university policy.

Disabilities Act Statement:

The University of Central Arkansas adheres to the requirements of the Americans with Disabilities Act. If you need an accommodation under this Act due to a disability, please contact the UCA Office of Disability Services, 450-3613.

Sexual Harassment and Academic Policies:

All students are required to familiarize themselves with the University of Central Arkansas policy on sexual harassment and on academic policies. These policies are printed in the Student Handbook.

Title IX

"If a student discloses an act of sexual harassment, discrimination, assault, or other sexual misconduct to a faculty member, the faculty member cannot maintain complete confidentiality and is required to report the act and may be required to reveal the names of the parties involved. Any allegations made by a student may or may not trigger an investigation. Each situation differs and the obligation to conduct an investigation will depend on those specific set of circumstances. The determination to conduct an investigation will be made by the Title IX Coordinator. For further information, please visit: <https://uca.edu/titleix>."

Emergency Procedures Summary (EPS):

An Emergency Procedures Summary (EPS) for the building in which this class is held will be discussed during the first week of this course. EPS documents for most buildings on campus are available at <http://uca.edu/mysafety/bep/>. Every student should be familiar with emergency procedures for any campus building in which he/she spends time for classes or other purposes.

Other Required Materials/Competencies/Resources:

Nothing additional is required for this course beyond what is stated above.

Accreditation & Assurance of Learning

Consistent with the College's values, vision, and mission, the MIS faculty identified a learning goal specific to the BBA in MIS degree program.

Learning Goal #8: Students will understand the key competencies that comprise the planning, analysis, design, and implementation of high-quality organization information systems. This learning goal is assessed in MIS 3328 and not in this course.

Learning Goal(s) Assessed in this Class:

- There is no formal assessment activity scheduled in this class pertaining to Learning Goal # 8.
 There is formal assessment activity scheduled in this class pertaining to Learning Goal # 8.

Learning Goals:

There are no learning goals in this class pertaining to Learning Goal # 8.

Learning Objective:

There are no learning objectives in this class pertaining to Learning Goal # 8.

Measure:

There are no measures in this class pertaining to Learning Goal # 8.

Benchmark:

There are no benchmarks in this class pertain

Class Coverage:

Week 1: Introduction to the class and chapter 1
Week 2: Chapter 2
Week 3: Finish chapter 2 and begin chapter 3
Week 4: Finish chapter 3 and quiz 1
Week 5: Chapter 4
Week 6: Exam 1 and begin chapter 5
Week 7: Finish chapter 5 and begin chapter 6
Week 8: Finish chapter 6 and discuss LC-2 programs
Week 9: Chapter 7
Week 10: Chapter 8
Week 11: Review and finish programs
Week 12: Exam 2 and start chapter 9
Week 13: Chapters 9 and 10
Week 14: Chapters 11 and 12
Finals week: Exam 3