

COURSE APPROVAL DOCUMENT
Southeast Missouri State University

Department: Computer Science _____

Course No. CS288 _____

Title of Course: Computer System and Assembly Language _____

Date: Fall 2019 _____

Please check: New
 Revision

I. Catalog Description (Credit Hours of Course): Computer system organization including logic circuits and assembly language. (4)

II. Prerequisite(s): CS245 with a minimum grade of C.

Co-requisite(s):

III. Purposes or Objectives of the Course (optional):

IV. Course Learning Outcomes (Minimum of 3):

- A. The students will be able to explain major components in modern computer systems.
- B. The students will be able to analyze and design basic combinational and sequential logic circuits.
- C. The students will be able to understand and write basic assembly language programs.
- D. The students will be able to do team work on some lab projects.

V. Names of Faculty Qualified to Teach the Proposed Course:

- A. Xuesong Zhang
- B. Vijay Anand

VI. Course Content or Outline (Indicate number of class hours per unit or section):

Topic	Hours
A. Introduction:	3
B. Logic Circuits Analysis and Design	9
C. Error Detection and Corrections	4
D. Memory Organization	5
E. Instruction Set Architectures	6
F. I/O Handling	10
G. Assembly Language	12
H. Embed Systems (EBS)	8
I. Tests	3
Total:	60

Attach the following:

- copy of example class syllabus and course schedule.
- memo from Library Dean assessing available and needed library holdings and resources.
- memo(s) from Department Chairs in affected departments stating possible issues and/or conflicts are resolved.

Signature: _____

Chair

Date: 10/25/18

Signature: _____

Dean

Date: 10/25/18

I. COURSE INFORMATION

Course Number: CS288
Course Title: Computer System and Assembly Language
Catalog Description: Computer system organization including logic circuits and assembly language. (4)
Prerequisites: CS245 with a minimum grade of C.
Credit/contact Hours: 4 credit hours.
Semester: Fall 2019

II. CLASS MEETING TIME AND PLACE

Class meeting time: MTWR 9:00 am-10:00 am.
Class meeting place: DH128.

III. INSTRUCTOR INFORMATION

Instructor: Dr. Xuesong Zhang
Contact Info:
Email: xzhang@semo.edu
Office Phone: 573-651-2788
Office Location: DH021C
Office Hours: MWF 11am -12noon

IV. COURSE-SPECIFIC REQUIRED MATERIALS

Student Textbook:

V. Computer Organization and Design - 5th edition ISBN13: 9780124077263 ISBN10: 0124077269 by Davis Patterson

VI. COURSE LEARNING OUTCOMES / COURSE OBJECTIVES

- A. The students will be able to explain major components in modern computer systems.
- B. The students will be able to analyze and design basic combinational and sequential logic circuits.
- C. The students will be able to understand and write basic assembly language programs.
- D. The students will be able to do team work on some lab projects.

VII. STUDENT RESPONSIBILITIES

As a student in this course, you are responsible for:

- A. managing your time and maintaining the discipline required to meet the course requirements
- B. completing all readings and assignments
- C. completing and submit exams on time
- D. attending class regularly and on time
- E. checking for any e-mail sent by your Instructor and respond accordingly

VIII. COURSE CONTENT

Topic	Hours
J. Introduction:	3
K. Logic Circuits Analysis and Design	9
L. Error Detection and Corrections	4
M. Memory Organization	5
N. Instruction Set Architectures	6
O. I/O Handling	10
P. Assembly Language	12
Q. Embed Systems (EBS)	8
R. Tests	3
Total:	60

IX. GRADING SCALE AND POLICIES

Assessment:

Activity	percentage
Assignments	40%
Quizzes	20%
Exams	30%
Final	10%
Total	100%

Grading Scale:

A: 90% -- 100% B: 80% -- 89% C: 70% -- 79% D: 60% -- 69% F: 0% -- 59%

X. FINAL EXAM SCHEDULE

Final Exam Place: DH128

Final Exam Date: December 12, 2018

Final Exam Time: 8:00 am – 10:00am

XI. WHOM TO CONTACT WITH CONCERNS

Questions, comments or requests regarding this course or program should be taken to your instructor. Unanswered questions or unresolved issues involving this class may be directed to Dr. Sumanth Yenduri, Computer Science Department Chair at: (573-651-2368) (syenduri@semo.edu).

XII. DROP POLICY

We hope that you will complete the course and benefit from it. If it is necessary for you to withdraw from the course during the semester, you must follow all official SEMO procedures for withdrawing. It is not sufficient to notify the instructor; you must withdraw officially. The instructor would appreciate it if you would first consult with him/her. For information regarding incomplete, withdrawal, etc. please visit the universities polices which can be found at:

<http://www.semo.edu/facultysenate/handbook/3c.html>

XIII. ATTENDANCE

It is important for students to attend class regularly. If you find it necessary to miss one or more classes, you are still responsible for all material covered in the class, and for submitting the homework on time. University policy regarding attendance may be found here: <http://www.semo.edu/bulletin/>.

XIV. SUBMISSION AND DEADLINES

If circumstances prevent the timely submission, please notify the instructor by e-mail. Unless you make prior arrangements with him/her, any activity submitted after its assigned due date will be considered late. If the instructor considers your excuse to be appropriate, he/she will give you extra time to submit your activity, but you will lose 20% credit.

XV. INSTRUCTOR RESPONSE TO EMAILS

Please use your Southeast Email to contact the instructor. He/she will not respond to any other email type, and it will be ignored.

XVI. ACCESIBILITY STATEMENT

Any student who believes that he/she may need an academic accommodation based on the impact of a disability should contact the instructor to arrange an appointment and inform him/her before the beginning of classes to discuss their individual needs. Instructors rely on Disability Support Services for assistance in verifying the need for academic accommodations and developing accommodation strategies. Students are encouraged to visit the web site of the Learning Assistance and Disability Support Services website located at: <http://www.semo.edu/ds/> to learn more about their available policies and services. It is very important that if you think you may need to utilize this service you need to contact me within the first couple of weeks of the semester.

XVII. ACADEMIC HONESTY

No cheating in any form will be tolerated. Please be aware that anyone caught cheating or plagiarizing in this class will receive a "0" for the assignment/exam/activity. Students are encouraged to visit the following website for complete list of regulations (From Faculty Senate Bill 11-A-16 <http://www.semo.edu/facultysenate/handbook/5d.html>).

Revised 05/25/2017

XVIII. CIVILITY AND HARASSMENT

A major determinant of a successful educational experience is a shared sense of respect among and between the students and their instructor. Some of the texts and issues we will discuss may cause disagreements among members of the class. Multiple viewpoints are an essential component of any college course, and disagreeing with someone is fine. However, rude, disrespectful, aggressive, offensive, harassing, or demeaning behavior — either face-to-face or in an online discussion—toward anyone in the class will not be tolerated; students are expected to abide by the Code of Student Conduct (<http://www.semo.edu/stuconduct/>). Should a student feel someone has acted inappropriately toward them in class, please speak with the instructor at once so the situation can be addressed. The instructor for the course reserves the right to ask a student to leave the classroom or the online discussion for any inappropriate behavior, and if the situation warrants, may call campus security to remove the offending student from class.