Syllabus (CISC-211 Computer Organization & Assembly Language)

Course information

Course name	CISC-211 Computer Organization & Assembly Language
Year	Spring 2023-24
Class ID	25697
Section	3001
Location	Miramar College, M building, Room M-102
In-person class schedule	Mon & Wed 11:10 am – 12:35 pm
Course resource	Course contents are available in Canvas https://sdccd.instructure.com
Duration	Jan 30 – May 27 (16 weeks)
Professor	Dr Danish Khan
Office hours	Wed 12:35-1:35 pm (Room M-102)
Email	dkhan1010@gmail.com

Important dates/deadline

30 Jan	Spring 2023 Primary 16-Week Session Begins
10 Feb	**Student Add/Drop:** Deadline to drop classes with no "W" recorded
13 Feb	Instructor Drop/Census: All drops must be submitted by Noon
17-20 Feb	**Lincoln/Washington Day (CAMPUS CLOSED)**
31 Mar	**Cesar Chavez Day (CAMPUS CLOSED)**
14 Apr	**Pass/No Pass:** Deadline for the student to select the P/NP option. **Withdraw:** Last day to withdraw from classes and receive a "W". No drops accepted after this date. Thereafter, a student must receive a letter grade.
27 May	Session end
29 May	**Memorial Day (CAMPUS CLOSED)**
2 Jun	**Grades:** Deadline for instructors to submit final grades

Instructor communication policy

The best way to reach me is via my email **dkhan1010@gmail.com**

If I have not responded to your message within 24 hours, Monday through Friday, or within 48 hours on the weekend, then please resend the message to my email. Messages sent on Friday evening, Saturday, Sunday, or during holidays may have a slower response time.

Course outline and schedule

Week	Date	Topics	Deadlines
1	30 Jan	Data representation	Assignments due on 5 Feb
2	6 Feb	Boolean Algebra	Assignments due on 12 Feb
3	13 Feb	System Organization	Assignments due on 19 Feb
4	20 Feb	Memory organization	Assignments due on 26 Feb
5	27 Feb	Variables and simple data structures in memory	Assignments Due on 5 Mar
6	6 Mar	The 80x86 instruction set	Assignments due on 12 Mar
7	13 Mar	Code optimizations	Assignments due on 19 Mar
8	20 Mar	Revision, **Midterm on 22 Mar**	
		Spring break (27 Mar - 1 Apr) - No classes	
9	3 Apr	Arithmetic and logical operations	Assignments due on 9 Apr
10	10 Apr	Control Structures	Assignments due on 16 Apr
11	17 Apr	Loops and Arrays	Assignments due on 23 Apr
12	24 Apr	Procedures and Functions	Assignments due on 30 Apr
13	1 May	Procedures and Functions (contd.)	Assignments due on 7 May
14	8 May	File Management	Assignments due on 14 May
15	15 May	Revision and project work	Project submission 26 May
16	22 May	**Final exam on 22 May**	

Textbook

I recommend following my notes and resources provided on the course site in Canvas. The following resources are for your reference only.

1. Harris, Sarah L., and David Money Harris. Digital Design and Computer Architecture: ARM Edition, 1st ed. Morgan Kaufmann, 2016, ISBN: 9780128000564
2. Hohl, William, and Christopher Hinds. ARM Assembly Language: Fundamentals and Techniques, 2nd ed. CRC Press, 2015, ISBN: 9781482229851
3. Irvine, Kip R. Assembly Language for x86 Processors, 7th ed. Pearson, 2014, ISBN: 9780133769401
4. Paul, Richard. SPARC Architecture, Assembly Language Programming, and C, 2nd ed. Pearson, 1999, ISBN: 9780130255969
5. Stallings, William. Computer Organization and Architecture, 10th ed. Pearson, 2016, ISBN: 9780134101613

6. Plantz, Robert G. Introduction to Computer Organization with x86-64 Assembly Language & GNU/Linux, Lulu or accessible online at bob.cs.sonoma.edu, 07-13-2016

Software and hardware resources

- VMware player to create virtual machines. Further details are on the canvas course.
- Minimum Laptop/desktop requirements: Intel/AMD CPU, 4GB DDR3/4 generation RAM, 40+GB hard drive, 64-bit OS (Windows/OSX), Microphone, and high-speed Internet.
- SD Miramar students may check out laptops from the library, dependent on availability at https://sdmiramar.edu/library/materials-checkout
- Students may be eligible for emergency broadband internet discounts at Affordable Connectivity Program https://www.fcc.gov/acp

Grading scheme

Grade	Percent	Description
A	>90	Work of genuinely superior quality.
B	80-89	Passing performance falls approximately in the upper distribution of passing grades.
C	71-79	Passing performance falls approximately in the center of the distribution of all passing grades.
D	65-70	Passing performance falls approximately in the lower distribution of passing grades.
F	<65	Failing performance that does not satisfy the basic requirements of the course and needs to be improved in significant ways.

Course evaluation schemes

Evaluation type	Out of 100
Weekly lab assignments	20
Quizzes	10
Mid term	30
Project	10
Final exam	30

Late/due work

You must submit your coursework by the due date indicated on the Schedule of Assignments shown in Canvas. Some modules may require more time to complete than others. It is your responsibility to allocate the time needed to complete your work. Be sure to begin your work before the due date. Late work is accepted if submitted within 24 hours at the cost of a 50% reduction in the marks. In case the assignment

is not submitted on time due to medical, health, or technical reasons, an email should be sent **within five working days** after the due date. Please notify me using the email dkhan1010@gmail.com

Attendance/Absences

- It is the student's responsibility to drop all classes in which they are no longer participating **(for online classes)**.
- It is the student's responsibility to drop all classes in which they are no longer attending **(for on campus classes)**.
- It is the instructor's discretion to withdraw a student after the add/drop deadline due to excessive absences.
- Students who remain enrolled in a class beyond the published withdrawal deadline, as stated in the class schedule, will receive an evaluative letter grade in this class. (A, B, C, D, F, P, NP)

Accommodating Students with Disabilities

- Students with disabilities who may need academic accommodations are encouraged to discuss their authorized accommodations from Disability Support Programs and Services (DSPS) with their professors early in the semester so that accommodations may be implemented as soon as possible.
- The faculty member will work with the DSPS Office to ensure that proper accommodations are made for each student. By law, it is up to the DSPS Office, through the interactive process with the student, to determine which accommodations are appropriate, not the instructor. This includes accommodations in a clinical setting.
- Students that need evacuation assistance during campus emergencies should also meet with the instructor as soon as possible to ensure the health and safety of all students.

> For more information, you may contact the DSPS Office on your campus or the website at https://www.sdccd.edu/about/departments-and-offices/student-services-department/dsps/index.aspx or refer to Administrative Procedure, AP 3105.1 Academic Accommodations and Disability Discrimination for Students with Disabilities.

Cheating/Plagiarism

Students are expected to be honest and ethical at all times in the pursuit of academic goals. Students who are found to be in violation of Administrative Procedure 3100.3 Honest Academic Conduct, will receive a grade of zero on the assignment, quiz, or exam in question and may be referred for disciplinary action in accordance with Administrative Procedure 3100.2, Student Disciplinary Procedures.

Honest Academic Conduct

- Students are expected to adhere to the Honest Academic Conduct policy at all times. Students who violate the Honest Academic Conduct policy may be removed from class by the faculty for the class meeting in which the behavior occurred, and the next class meeting.
- **For online classes:** Student access to class is removed for one week (5 instructional days).
- Acceptance of make-up work during the removal will be decided by the instructor based on the incident.
- Incidents involving removal of a student from class will be reported to the college disciplinary officer for follow up.

> The Honest Academic Conduct policy can be found in Board of Trustees Policy, BP 5500, Student Rights, Responsibilities, Campus Safety and Administrative Due Process posted on the District website at: https://www.sdccd.edu/docs/District/procedures/Student Services/AP 3100_03.pdf

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Last updated on Jan 2023