

CIS005 Intro to Computer Science *Online* Lec 21070 / 21068 Spring 2016 C. of Alameda

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Office Phone: 748-2389 / Office Location: D225

Office Hours: M 12:50–1:50 PM, W 1:00–1:50 PM, by Appointment

Textbooks: The class will use the following two books:

1. **Either** O'Leary, *Computing Essentials 2015 Complete Edition* bundled with Connect Plus © 2015 ISBN-10: 1259285545 ISBN-13: 9781259285547, McGraw-Hill

or O'Leary, *Computing Essentials 2015 Complete* with Connect Plus with LearnSmart Access Card for Computing Essentials 2015 Complete © 2015 ISBN:10: 1259218953 ISBN_13: 9781259218958, McGraw-Hill.

To register for Connect online access: go to connect.mheducation.com/class/muy21070

To resolve technical issues, call 1-800-331-5094 directly.

2. Miller & Ranum, *Python Programming In Context*, 2e, 2014, 9781449699390, Jones and Bartlett

To register for CodeLab online programming: go to go to www.tcco2.com and select

Register for CodeLab and use the **Section Address code: COFA-22559-TNGL-27**

Course Descriptions: Architecture of digital computers, design of algorithms for solving various problems, and basic skills in computer programming. Students have weekly online assignments which I monitor and they communicate with me by email, the open forum in Moodle, or office hours.

Week/Date	<u>Assigned Readings and Homework and Exams</u> (Refer to Legend shown next line)
	Legend: B1= Computing Essentials/Connect, B2=Python Programming using CodeLab
00: 01/22	Mandatory Orientation at 2:20 PM Friday in D237
01: 01/25	B1:Ch 1 Information Technology, the Internet, due 02/15 /// B2:Ch 1 Introduction due 02/15
02: 02/01	B1:Ch 2 Internet, the Web, and Electronic Commerce due 02/15
03: 02/08	B1:Ch 3 Application software due 02/22 /// B2:Ch 2 Python due 02/29
04: 02/15	B1:Ch 4 System Software due 02/22
05: 02/22	B1:Ch 5 System Unit due 02/29
06: 02/29	B1:Ch 6 Input and Output due 03/14 /// B2:Ch 3 Codes & Other Secrets due 03/14
07: 03/07	B1:Ch 7 Secondary Storage due 03/21
08: 03/14	B1:Ch 8 Communications & Networks due 03/28 /// B2:Ch 4 A Nest of Snakes due 03/28
xx: 03/21	Spring recess: 03/21 to 03/26
09: 03/28	B1:Ch 9 Privacy, security, and Ethics due 04/04
10: 04/04	B1:Ch 10 Information Systems due 04/18 /// B2:Ch 5 Earthquakes, Floods due 04/18
11: 04/11	B1:Ch 11 Databases due 04/18
12: 04/18	B1:Ch 12 Systems Analysis and Design due 05/02 /// B2: Ch 10 Astronomy due 05/20
13: 04/25	B1:Ch 12 Continued due 05/02
14: 05/02	B1:Ch 13 Programming & Languages due 05/13
15: 05/09	B1: All Remaining Homework on Computing essentials/Connect due 05/13/2015
16: 05/16	B2: All Remaining Homework on Python Programming due 05/20/2015
17: 05/23	1-hour In-Person Final Exam in D237 on 05/24/2016 Tuesday at 1:00 PM

Grading Policy (No make-up homework, no make-up exams and no incomplete grades will be allowed)

<u>Categories</u>	<u>B1: HW</u>	<u>Programming</u>	<u>Orientation</u>	<u>Final Exam</u>	<u>Total</u>
<u>Distribution</u>	40 points	30 points	2 points	28 points	100 points
<u>Brackets</u>	<u>90 to 90+</u>	<u>80 to <90</u>	<u>70 to <80</u>	<u>60 to <70</u>	<u>0 to <60</u>
<u>Letter Grades</u>	***A***	***B***	***C***	***D***	***F***

Student Learning Outcomes:

1. Computer Systems Knowledge

Demonstrate understanding of computer concepts, distinguish components of computer architecture, perform system functions, and evaluate software design and methodology to identify best practices.

2. Analyze Problems and Design Solutions

Consistent with the program life cycle, analyze problems and design solutions using HIPO charts and program logic flowcharts

3. Construct and Validate Programs

Given a program design, code, compile, test, implement, and evaluate the program solution