

Course Outline-MAE 5
Quantitative Computer Skills
Winter Quarter: Jan. 9 to Mar. 16, 2018

Times and places: Lecture: A00 TuTh 8 -9:20 am, PCYNH 120; Lab. Sects. EBU2 205: A01 Tu 9:30-11:20, A02 W 10-11:50 A03 W 1-2:50, A04 Th 2-3:50

Course Code: 922824-9922827.

Instructor: Carl H. Gibson, Professor of Engineering Physics and Oceanography, 575 EBU2, 534-3184. Email, cgibson@ucsd.edu; WebPage <http://sdcc3.ucsd.edu/~ir118>. Office hours before and after lectures in PCYNH 120.

Reader/TA : Sumin Shin (sus020@eng.ucsd.edu), all sections.

Textbook: Avery Catlin, True Basic Press. *Let's Program It ... in True Basic* 1996. Available in bookstore.

Course Description: Introductory course for non-engineering majors. Use of computers in solving problems; applications from life science, physical science, and engineering. Students run existing computer programs and complete some programming in BASIC. Detailed information is given in the course webpage (<http://sdcc3.ucsd.edu/~ir118>). **No final. No labs week of Jan. 8. Homework and projects are due the week after they are assigned.**

Grading: Quizzes given during lectures and labs count 5% each (total 50%: top 8 Qs plus top 2 LQs). Bring green scantron forms #882-ES to lectures and labs. Homework sets are due weekly as clearly labeled files (e. g.: A01-HW1 Doe, Jane) before the beginning of section the week after assignment, and count 4% each (total 20%: top 5). Two projects count 15% each (total: 30%). Discussion between students of all class work is permitted and encouraged but presentation of copied work as original is forbidden. Late homework is not accepted. Check webpage for homework and quiz hints.

Schedule

<i>Week</i>	<i>Date (Tu/Th)</i>	<i>Read Chapter</i>	<i>Quizzes</i>	<i>Homework</i>	<i>Projects</i>
1	Jan. 9, 11	1,2	Q1	MEX2, PP2.1,2,3,4,5	
2	Jan. 16, 18	3	Q2, Q3	MEX3, PP3.1,2,4,5	
3	23, 25	4	Q4, Q5, LQ1	MEX4, PP4.1,2,3,4	
4	30, Feb. 1	5	Q6,Q7,	MEX5, PP5.1,2,3,4	
5	6,8	6	Q8,Q9, LQ2	MEX6, PP6.1,2	
6	13,15	7	Q10, Q11	MEX7, PP7.1,2,3,4	
7	7, 9	8,9		MEX8,9	Project 1
8	14, 16	10,11	Q12 LQ3	MEX10,11	
9		12	LQ4	MEX12	Project 2
10	Mar. 16, No Final	13,14			

MEXY=ModifiedEXamplePrograms.Chap.Y, PP2.1,2=Practice Programs 2.1 and 2.2