

Course Outline-MAE 5

Quantitative Computer Skills

Winter Quarter: January 4 to March 11, 2005

Times and places: Lecture: A00 TuTh 8 -9:20 am, Center Hall 105; Lab. Sects. EBU2 205: A01 Tu 9:30-11:20, A02 W 10-11:50, A03 W 1-2:50, A04 Th 11-12:50, A05 Th 2-3:50, A06 F 9-10:50, A07 F 2-3:50

Course Code: 520935-520941, 520934

Instructor: Carl H. Gibson, Professor of Engineering Physics and Oceanography, 575 EBU2, 534-3184. Email, cgibson@ucsd.edu; WebPage <http://www-ac.s.ucsd.edu/~ir118>. Office hours before and after lectures in Center Hall 105.

Teaching Assistant/Tutors: Kuran Kalyan, (858) 232-5599, kkalyan@cs.ucsd.edu; Greg (Erik) McKee, (858) 534-7888, gmckee@ucsd.edu, Karthik Nagarajan, (858) 452-6546, knagaraj@ucsd.edu.

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://www-ac.s.ucsd.edu/~ir118>). **No final, no labs week of Jan. 3. 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 placed in the MAE 5 Drop Box before the beginning of your 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 classwork 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

Week	Date (Tu/Th)	Read Chapter	Quizzes; Homework; Projects
1	Jan. 4,6	1,2	Q1;MEX2,PP2.1,2,3,4,5
2	11,13	3	Q2,Q3;MEX3, PP3.1,2,4,5
3	18,20	4	Q4,Q5, LQ1;MEX4, PP4.1,2,3,4
4	25,27	5	Q6,Q7;MEX5, PP5.1,2,3,4
5	Feb. 1,3	6	LQ2;MEX6, PP6.1,2; Project 1
6	8,10	7	Q8,Q9;MEX7, PP7.1,2,3,4
7	15,17	8,9	LQ3;MEX8,9
8	22,24	10,11	Q10,Q11;MEX10,11
9	Mar. 1,3	12	Q12; LQ4; MEX12, Project 2
10	8,10	13,14	
11	No Final		

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