

ENGINEERING COMPUTING (ENGR 244 SECTION 2, M. T. HORSCH): DETAILED SCHEDULE

Mon Sept 11 14.15 – 15.45: Introductory Session

(1) Programming in C/C++ (Stroustrup: Sections 1.2, 2.2, 2.3, 2.4, 7.2, 7.3, 7.6, 9.4, 9.5, 12.1, 12.2)

Wed Sept 13 14.15 (1) Class I

Mon Sept 18 14.15 – 15.45: C++ Compiler and Environment Setup and Test

Wed Sept 20 14.15: (1) Class II

Wed Sept 27 14.15: (1) Class III

Mon Oct 2 14.15: (1) Class IV

Wed Oct 4 14.15: (1) Class V

Mon Oct 9 14.15: (1) Class VI

(2) Algorithms and Numerical Methods (Numerical Recipes: Chapter 8)

Wed Oct 11 14.15: (2) Class I

Mon Oct 16 14.15 – 15.45: Tutorial Session (1)

Wed Oct 18 14.15 – 15.45: Programming Review Session I

Sat Oct 21: Discussion of Programming Practice (Appointments with Groups)

Mon Oct 23 14.15 – 15.45: Programming Review Session II

Wed Oct 25 14.15: (2) Class II

Wed Oct 25 18.00 – 19.30: Coding Session with Graded Group Work (room B-B1-08)

Sat Oct 28 16.30 – 18.30: Term Exam I (room A-G-05)

(3) Application to Engineering Problems

Mon Oct 30 14.15: (3) Class I

(4) Data Structures and I/O (Stroustrup: Sections 4.2, 4.3, 4.4, 4.5, 31.2, 31.3, 31.4, 32.4, 33.1, 38.1, 38.2)

Wed Nov 1 14.15: (4) Class I

Mon Nov 6 14.15 – 15.45: Tutorial Session (2)

Mon Nov 6: Due Date for Programming Project Proposals

Wed Nov 8 14.15 – 15.45: Discussion of Term Exam I

Wed Nov 8 – Sat Nov 11: Discussion of Programming Projects (Appointments with Groups)

Wed Nov 15 14.15: (4) Class II

Mon Nov 20 14.15 – 15.45: Tutorial Session (3)

(5) Software Development (In-Class Code Development; Software Debugging and Optimization)

Wed Nov 22 14.15: (5) Class I

Wed Nov 22 18.00 – 19.30: Coding Session (mandatory)

Mon Nov 27 14.15: (5) Class II

Sat Dec 2 16.00 – 18.00: Term Exam II (room A-G-05)

Group Project Presentations and Individual Presentations

Wed Dec 6 12.30: Session I

Wed Dec 6 14.15: Session II

Wed Dec 6 18.00: Session III

Sat Dec 9: Due Date for Final Project Reports and Codes

Mon Dec 11 14.15 – 15.45: Discussion of Term Exam II