SE 2A04 Fall 2002

Preliminaries

Instructor: W. M. Farmer

Revised: 4 September 2002

Instructor

Dr. William M. Farmer

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Office hours: To be announced

Mission

1. Understand the professional responsibilities of software engineers.

2. Understand the role of precise specifications in software development.

3. Learn how to read and use specifications in program design, implementation, testing, and inspection.

4. Learn the basic principles of software design with emphasis on programs that are sequential, terminating, and composed of modules.

Work Plan

- Lectures (see schedule in course outline)
- A lab exercise every two weeks
  - Done individually
  - 5 programs will be written in Oberon-2, 1 in C
- 2 surprise quizzes done in class
- 2 midterm tests done during the class hour
- Final exam

Texts

1. **Required**: F. P. Brooks, Jr., *The Mythical Man-Month*, Addison Wesley, 1995.

2. **Required**: H. Mössenböck, *Oberon-2*, McMaster Custom Courseware, SE 2A04, September 2002 (or H. Mossenbock, *Object-Oriented Programming in Oberon-2*, Springer-Verlag, 1995).

3. **Optional**: E. Nikitin, *Into the Realm of Oberon*, Springer-Verlag, 1998.

4. **Optional**: D. Hoffman and P. Strooper, *Software Design, Automated Testing Maintenance*, McMaster Custom Courseware, SE 2A04, September 2002.

5. **Optional**: D. M. Hoffman and D. M. Weiss, *Software Fundamentals: Collected Papers by David L. Parnas*, Addison Wesley, 2001.

Mechanics

- Course web site:

  `http://www.cas.mcmaster.ca/~wmfarmer/SE-2A04-02/`

- Teaching assistants
  - Huan Gao, Sara Kennedy, Yamama Khadduri, and Xiaoyang Yu
  - Provide assistance with lab exercises and programming in Oberon-2 and C
  - Mark lab exercises

- Each student is required to keep a log

Grading

Lab exercises (6)	20%
Surprise quizzes (2)	10%
Midterm tests (2)	30%
Final exam	40%
Total	**100%**

- If you are not present in class when a surprise quiz is given, you will receive a 0.

- A student who fails the midterm tests and final exam automatically fails the course.

Selected Policy Statements

1. We would appreciate your suggestions on how we can improve our teaching methods.

2. Significant study and reading outside of class is required.

3. Regular class attendance is expected, and attendance will be taken.

4. You are **strongly** urged to ask questions during class.

5. You are welcome to discuss lab exercises with other students, but all such interactions must be recorded in your log.

6. **Your final program must be your own.**

7. You may use your texts and notes during the surprise quizzes, midterm tests, and final exam.

8. Lab exercises may not be turned in late and midterm tests may not be taken later without **prior** approval from the instructor.

9. The instructor reserves the right to require a deferred final exam to be oral.

Lab Sessions

- Two parts:

  Tutorial part: Friday 14:30–15:20 ABA 136
  Lab part: Friday 15:30–17:20 ITB 235,236

- Magnetic keys: get them at the Copy Center, JHE 201

- Account names: same as your McMaster e-mail name

- Printing: purchase a "CAS cookie" at the Bookstore

- Off-campus access: see

  `http://www.cas.mcmaster.ca/cas/ssh/`