

Course Outline

SCHOOL OF COMPUTER SCIENCE

- INSTRUCTOR:** **Dr. Ziad Kobti**
Email : kobti@uwindsor.ca (*best way to contact me!*)
Office: 5101 Lambton Tower
Phone: 519-253-3000 ext. 3792
Office Hours: *Tuesday & Thursday 4:00pm to 5:00pm or by appointment*
Note: Only email originating from a valid University of Windsor student account will be accepted from students wishing to contact the instructor.
Please include your full name and student ID in your correspondence.
- PRE-REQUISITES:** Interest in Computer Programming!
Note: no student is allowed to take a course more than two times without permission from the Dean
- LECTURES:** Section 02 – Tuesday and Thursday, 5:30pm – 6:50pm – Dillon Hall 355
- LABS:** **You must register in one of the following lab sections in addition to the lecture:**
Section 55: Tuesday 7pm-8:20pm West Library 305
Section 56: Thursday 7pm-8:20pm West Library 305
NOTE: You must register in one lab section. Attendance is mandatory. Labs start the week of September 19
You must have a working student computer account before coming to the lab.
You can obtain a UWINID account from the Computer Centre or call ITS ext. 4440.

**Any questions relating to laboratory should be addressed directly to your lab instructor.*
- COURSE DESCRIPTION:** This course is the first of a two-course sequence designed to introduce students to algorithm design and programming in a high-level language such as C. The main objectives of the course are to develop the ability to identify, understand and design solutions to a wide variety of problems. Topics include: computer system overview, hardware and software, problem solving steps, concepts of variables, constants, data types, algorithmic structure, sequential logic, decisions, loops, modular programming, one-dimensional arrays, text files. If possible, problems like searching/sorting will be addressed. (3 lecture, 1.5 laboratory hours a week; plus unsupervised study and work on individual assignments.)
- REQUIRED TEXTBOOK:** C.I. Ezeife, "Problem Solving and Programs with C", Nelson Thomson Learning Ltd., August 2010, 3rd edition, ISBN 0-17-633082-8.

Other recommended textbook:
Deitel & Deitel, "C How to Program", Prentice Hall, 2010, 6th edition, ISBN 0136123562
- SUPPLEMENTS:** <http://cs.uwindsor.ca/~kobti/cs140/>
<http://cs140-141.cs.uwindsor.ca/>
<http://cs.uwindsor.ca/~cezeife/courses/60-140/> (Refer to lab exercises and textbook materials)
Check websites frequently for announcements and other useful info.
- GRADING SCHEME:** A+ ≥ 93 ; A ≥ 86 ; A- ≥ 80 ; B+ ≥ 77 ; B ≥ 73 ; B- ≥ 70 ; C+ ≥ 67 ; C ≥ 63 ; C- ≥ 60
D+ ≥ 57 ; D ≥ 53 ; D- ≥ 50 ; F ≥ 35 ; F- < 35

COURSE	17% Midterm #1 (October 13, in class)
EVALUATION:	17% Midterm #2 (November 3, in class)
	45% Final Exam (December 10, 7pm)
	10% Laboratory (Mandatory Attendance and Lab Exercises 5%; Quizzes and Exams worth 5%)
	10% Assignments (up to 6)
	1% Lecture attendance/Quizzes (in class up to 3 randomly selected classes by the instructor without prior notice, and/or up to 3 unannounced Quizzes)

NOTE: Consistent with University Senate Bylaws, no marked work will be assigned to students during the last week of classes, nor will any assigned work come due for submission during the last week of classes or during the period of the final examinations.

NOTE: Academic Amnesty day on October 6, 2011

Course Schedule:

Week	Topic & Readings	Lab
1	Sep 8 Introduction, Chap. 1&2	No Lab
2	Sep 13/15 Introduction	No Lab
<i>Sep 21 Last day for late registration and change of course for Fall term, day and evening. Last day for full tuition refund.</i>		
3	Sep 20/22 Problem steps, algorithms, C program instructions and structure Chap. 2&3	Lab 1
4	Sep 27/29 Algorithms / C program structures Chap. 3	Lab 2
5	Oct 4/6 Top-down design, functions, parameters, flowcharts Chap 4	Lab 3
<i>Oct 10 Thanksgiving Day. No classes</i>		
6	Oct 11/13 Midterm 1 – Oct 13 in class	No Lab
7	Oct 18/20 Chap 5, 6 Logic and Control	Lab 4
8	Oct 25/27 Chap 7 Repetition	Lab Review
<i>Nov 9 Last day to voluntarily withdraw from Fall term courses. After this date students remain registered in courses and receive final grades as appropriate. Last day for partial tuition refund.</i>		
9	Nov 1/3 Midterm 2 – Nov 3 in class	Lab 5
10	Nov 8/10 Read Chap 8	Lab 7
11	Nov 15/17 Arrays Chap 8	Lab 8
12	Nov 22/24 Arrays, search, sort, Chap 8	Lab Exam
13	Nov 29/Dec 1 Review	Lab Review
<i>Dec 5 Last day of classes</i>		
<i>Dec 10, 7pm Final Exam</i>		

Note 1: The Student Evaluation of Teaching (SET) will be conducted during the last week of class.

Note 2: Students are advised that the schedule and topics described above are tentative and that the material and/or depth and order of presentation are subject to change at the discretion of the instructor and student pace.

CAUTION: This course assumes the student will allocate a significant amount of independent study and time spent on coding programs in C. You are strongly encouraged to ensure sufficient time needed to succeed in this course.

Assignment Submission

1. Completed individual assignments must be handed in five minutes before the beginning of class (inside the class room) on the day on which they are due.
2. All assignments must be placed in the approved Computer Science Manila envelope (9 x 12 inch) available at the Bookstore - keep three of them for this course). Envelopes should be clearly marked on the outside with student's name, student number, course lecture section, course lab section and instructor's name.
3. Late assignments are not accepted.
4. The following confidentiality agreement and statement of honesty will need to be signed by students for all handed-in course work to discourage and prevent academic dishonesty and cheating. Note that if two assignments are found to be a copy of each other, a mark of 0 will be assigned to both assignments.

Group Lab Exercises

Students will be assigned to groups of 2 to 3 students in the first lab. At every lab, each group makes a five minute presentation of their solutions to lab exercises to either the GA or the Prof. The group lab exercises are given in the course book (pp. 260 - 285). The presentation should indicate clearly each group member's contribution. Each week, on a rotational basis, one member of the group acts as the group leader who coordinates the meeting of the group members and presents the group's answers to the lab exercises for that week. Poor handling of the group leadership may lead to loss of marks by the leader. Members are expected to cooperate with the group leader. Labs are for practicing and learning programming concepts discussed in the class by working with small groups of students and being guided by GA/Prof. Thus, students get the mark for attending the lab when they have shown their implementation of the lab exercises that week in the lab.

Computing Resources Available for Course Work

Computing laboratories will be available from the second week of the semester onwards. The CS laboratories are located on the third floor of Lambton Tower and Erie Hall (called Java lab (ER 3150) and X-lab). The general IT services laboratories at the basement of the Computer Centre, next to the CAW Student Centre are also available to students. Students can also connect to campus machines (cs.uwindsor.ca or arc1.uwindsor.ca as backup, but do not share file system!) from their home PCs or laptop through internet connections.

Notes to Students:

- Attendance and student participation are essential to succeed in this course. You are encouraged to ask questions.
 - A website is setup for the course. This should be regarded as a complementary source of information and not as a primary reference. It is the responsibility of the student to attend classes and keep up with the latest course contents and announcements. Note that the website is not guaranteed to be up-to-date or accurate. Any student who relies solely on the website information, contrary to this warning notification, may place him/herself in academic jeopardy.
 - Students are encouraged to keep class notes in good order, repeat the examples demonstrated in class, and ask questions. Solving exercises on your own and participating in class are very important to succeed.
 - Assignments and projects are expected to be completed on the assigned due date and time. **LATE ASSIGNMENTS ARE NOT ACCEPTED.** You must allocate enough time to complete the assignments; start early and report difficulties to the instructor. **UNDOCUMENTED CODE WILL NOT BE GRADED** and will receive a mark of zero. Failure to submit the work in the correct format will be penalized. (i.e. incorrect email subject or unreadable/missing file attachments as instructed, etc...).
 - **THERE IS NO MAKE-UP FOR MIDTERMS.** Missing a test or an exam will greatly affect your grade since they carry a lot of weight. In the case of illness or serious and unavoidable reason (as per the senate bylaws), please consult with the instructor in advance if possible to make alternate arrangements. You must formally inform the instructor in writing and present proper supporting documents (stating that the student was unable to attend the exam at the specified time and date) within a week from the midterm or earlier to be verified – use the Student Medical Certificate form. If the reason is deemed valid, the weight of the midterm will be added to that of the final exam. (i.e. the final exam's weight will increase to include the missed midterm weight). All students are required to write the final exam in order to pass the course.
 - You will need access to a C compiler and a university email account. You need a UNIX (UWinID) student account (from ITS x4440 or helpdesk@uwindsor.ca for support).
 - **PLAGIARISM:** Should the instructor or grader find a reason for suspicion – or just cause – in a plagiarised student's work (assignment, lab or test), the work in question will not be graded and the student(s) will have to answer to the department's head and the dean of Science. Please refer to the University's policy on Plagiarism in the senate bylaws.
 - **Students who submit semantically equivalent assignments [or labs] (in other words, the same thing to within trivial modifications) will receive a grade of zero on ALL assignments [or labs].**
 - All students should keep the instructor informed about their difficulties with the course.
 - To the extent possible, students should contact the instructor outlining their problems with the course.
- TIP: To succeed in this course you need to PRACTICE! Allocate a minimum of 2 to 6 hours a week on reading and coding!**

CONFIDENTIALITY AGREEMENT & STATEMENT OF HONESTY*

**I confirm that I will keep the content of this assignment/examination confidential.
I confirm that I have not received any unauthorized assistance in preparing for or doing this assignment/examination. I confirm knowing that a mark of 0 may be assigned for copied work.**

Student Signature

Student Name (please print)

Student I.D. Number

Date

*To be submitted with every assignment submission or your assignment will not be graded.



Late Assignment Penalty Waiver/Bonus Coupon

Usage: This coupon is primarily intended to provide the student extra time to complete an assignment properly if the need arises for whatever reason. Use this coupon if you feel you are unable to submit the assignment on time. It grants you to extend the original deadline by 72 hours without being penalized for late submission. If you successfully complete ALL assignments on time, and do not use this coupon for the purpose of time extension, then you may submit this coupon in person to the instructor on or before the last official lecture and earn 1% toward your cumulative total of the assignments. For late waiver, the student must notify the instructor and submit the coupon in person within 24 hours from the original assignment due date. If you submit the coupon for late waiver and do not submit the assignment, or submit it after 72 hours from the original due date, then you will lose the coupon value and your assignment will not be graded.

Rules: Limit one per student. Not valid with any other offer. Coupon expires at **the end of your last regular lecture**. Non-negotiable, not redeemable for marks other than that specified above, not transferable. No late coupon submission is accepted once the offer expires. The instructor reserves the right to refuse or cancel this coupon offer at any time without notification. You must present this original coupon **in person and in class before the end of the last lecture to the instructor**. Copies or digital reproductions are not accepted.

PLEASE COMPLETE ALL FIELDS LEGIBLY

PRINT NAME: _____ LECTURE SECTION: _____ LAB SECTION: _____
Last name, First name

STUDENT ID: _____ DATE: _____

CHECK ONE: WAIVE LATE PENALTY FOR ASSIGNMENT NUMBER: _____ DUE: _____
(This grants the student up to 72 hours to submit the assignment from the original due date/time without penalty. Submitting the assignment after the 72 hours grace period is considered late and will be penalized accordingly; not submitting the assignment void the coupon and as a result the coupon can no longer be used for "bonus" and the assignment mark will be zero. This coupon does not apply for labs.)

or: CLAIM 1 BONUS POINT (Valid only if ALL assignments were successfully submitted on time)