

**CS 1011 - Introduction to Computers and Software**  
**Section 1**  
**Spring Semester 2012**

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**Course Information**

<b>Instructor</b>	Steve Holtz
<b>Email</b>	<a href="mailto:sholtz@d.umn.edu">sholtz@d.umn.edu</a>
<b>Phone</b>	726-7664
<b>Office</b>	Heller Hall 319
<b>Office Hours</b>	Monday through Thursday from 4:00 to 5:15 PM
<b>Course Web Site</b>	<a href="http://www.d.umn.edu/~sholtz/cs1011-1/s12/index.php">http://www.d.umn.edu/~sholtz/cs1011-1/s12/index.php</a>
<b>Teaching Assistant(s)</b>	<u>Section 2</u> Web: <a href="#">Rajesh Tripurneni</a> Email: <a href="mailto:tripu001@d.umn.edu">tripu001@d.umn.edu</a> <u>Section 3</u> Web: <a href="#">Rajesh Tripurneni</a> Email: <a href="mailto:tripu001@d.umn.edu">tripu001@d.umn.edu</a> <u>Section 4</u> Web: <a href="#">Rajesh Tripurneni</a> Email: <a href="mailto:tripu001@d.umn.edu">tripu001@d.umn.edu</a>
<b>Text(s)</b>	Beekman, George and Ben Beekman. <a href="#">Digital Planet: Tomorrow's Technology and You, Introductory, 10/E.</a> Prentice Hall. 2012.  Gaskin, Shelley, et.al. <a href="#">Custom Program for CIS: University of Minnesota Duluth.</a> Pearson Learning Solutions. 2011.
<b>Clickers</b>	In order to earn extra credit during this course, you will be required to purchase (if you do not already own) a student response system (SRS) clicker. Clickers will be used for <i>ConceptTests</i> during lecture. This will be an integral part of each lecture. There is more information on the use of clickers during this course below. You are not required to purchase a clicker, but it is highly recommended as it will be used to enhance lectures and generate extra credit points.
<b>Lecture</b>	Section 1 - 12:00 to 12:50 PM on Tuesday and Thursday in LSci 175
<b>Lab</b>	Section 2 - 10:00 to 10:50 AM on Monday in MWAH 177 Section 3 - 11:00 to 11:50 AM on Monday in MWAH 177 Section 4 - 1:00 to 1:50 PM on Monday in MWAH 177

**Course Prerequisite(s)**

1 yr high school algebra, WRIT 1120 or instructor consent.

No credit given if FMIS 1201, 2201, or 3201 have been earned.

**Course Description**

Introduction to the personal computer, hardware and software. Recognition of the computer's role as a productivity tool in business and society as a whole. Focus on developing a broad understanding of computing systems and widely used software applications.

**Liberal Education**

*Introduction to Computers and Software* satisfies a Liberal Education requirement under Category 3 - Communication, Computer Science, and Foreign Languages. Courses in this category develop the ability to use and analyze human and computer languages. Emphasis should be on the theory and/or development of skills in the methods of human and computer languages, and rhetoric.

**Course Objectives**

General introduction to computers and computing. Experience with popular applications used on microcomputers (spreadsheets, database management systems, presentation graphics, the Internet). The purpose of this course is to present a very general introduction to these software packages and to the important historical events, hardware and software advancements, persons and institutions behind today's world of computers. You will not be an 'expert' in any of these applications when you have finished this course, but you will have had first-hand experience with them. The primary course objective is for you to become familiar with the capabilities of these resources. It is hoped that you can later apply your knowledge, using computers profitably in your chosen field of endeavor.

**Policies**

<b>Exams</b>	<ul style="list-style-type: none"> <li>Exams are closed book, closed calculator, and closed notes.</li> <li>No make-up exams will be given without the prior consent of the instructor.</li> <li>Computer Science department policy requires at least 70% of the points in this course to come from examinations.</li> </ul>
<b>Final Exam</b>	<ul style="list-style-type: none"> <li>The two hour final exam is cumulative.</li> <li>It is departmental policy not to return final exams.</li> <li>See UMD's Final Exam Policy - <a href="http://www.d.umn.edu/registrar/final_exam_policy.htm">http://www.d.umn.edu/registrar/final_exam_policy.htm</a>.</li> </ul>
<b>Lectures</b>	<ul style="list-style-type: none"> <li>Lectures will focus around <i>ConceptTests</i>, a teaching tool developed by Physics Professor Dr. Eric Mazur of Harvard University.</li> </ul>

- A *ConcepTest* is a multiple choice question posed during lecture that is designed to challenge your understanding of a concept that was just covered. Student response system (SRS) clickers will be used to implement the *ConcepTests*.
- *ConcepTests* are not graded. Whether you answer correctly or incorrectly will not affect your grade. However, your participation in *ConcepTests* will be tracked and can affect your grade (see [Grading Policies](#) below).
- At the beginning of each lecture session there will be a clicker question that will be used to generate attendance for that session. This will be used to generate extra credit points (see [Grading Policies](#) below).
- You cannot use the lecture notes from this class in any way you choose. See UMD's Appropriate Use of Class Notes Policy at <http://www.d.umn.edu/vcaa/ClassNotesAppropriateUseof.html>
- Attendance will be taken at the start of every lecture and lab session.
- Attendance does not count directly towards your grade, but can have an affect on your grade through extra credit points (see [Grading Policies](#)).
- If you are late to a class session, then you are "late" and will get no credit for attending on that day. However, during lecture, clicking in on other clicker questions will still generate *ConcepTest* participation points.
- If you click in on the attendance question, but no other questions throughout lecture, then you will not receive credit for attending on that day.
- I will regularly do a head count in the lecture hall as the attendance question is being answered. If the head count does not match the number of people in the room, then I may throw out *everyone's* attendance for that day. This is to prevent someone from bringing a fellow student's clicker to lecture and clicking for them. This is a form of plagiarism and anyone caught using two clickers will be turned for an Academic Dishonesty violation ([see below](#)).

### Attendance

### Extra Credit

- Extra credit (EC) points are earned through participating in:
  1. Attendance
  2. *ConcepTests*
- EC points are applied in two ways:
  1. Directly to your final score.
  2. As a weight applied to your final exam (thus effectively reducing the weight of the final exam). See [Grading Policy](#).

### Grading

What	Weight	Date
Midterm 1	22.5	Tue, February 21 <sup>st</sup> , 12:00 to 12:50 PM
Midterm 2	22.5	Thu, March 29 <sup>th</sup> , 12:00 to 12:50 PM
Final Exam	25	Fri, May 11 <sup>th</sup> , 2:00 to 3:55 PM
Homework (9)	10	See <a href="#">Course Schedule</a>
Labs (12)	20	See <a href="#">Course Schedule</a>
Extra Credit	5	See formula below
<b>Total Weight</b>	100	

To calculate your current Total Weight, use the following worksheet:

	Actual Scores (AS)	Running Total of Actual Scores (RAS)	Maximum Points per Assignment (MP)	Running Total of Maximum Points (RMP)	Section Percentage
Homework 1 Homework 2 Homework 3 Homework 4 Homework 5 Homework 6 Homework 7 Homework 8 Homework 9					<b>HW</b> = RAS/RMP
Lab 1 Lab 2 Lab 3 Lab 4 Lab 5 Lab 6 Lab 7 Lab 8 Lab 9 Lab 10 Lab 11 Lab 12					<b>L</b> = RAS/RMP
Attendance					<b>AT</b> = AS/MP
<i>ConcepTest</i>					<b>CT</b> = AS/MP
Midterm 1					<b>M1</b> = AS/MP

	Actual Scores (AS)	Running Total of Actual Scores (RAS)	Maximum Points per Assignment (MP)	Running Total of Maximum Points (RMP)	Section Percentage
Midterm 2					M2 = AS/MP
Final					F = AS/MP

Calculate the Section Percentage for each row by dividing the appropriate column totals indicated by the equation in this column. For example, assuming that in the homework row we have the RAS column showing a total sum of 78 and the RMP column showing a total sum of 90, then to calculate the HW Section Percentage, we have  $HW = RAS/RMP = 78/90 = 0.867$ .

Calculate your extra credit (EC) points as follows. EC points are earned through your attendance (AT) percentage applied to your percentage of participation in *ConceptTests* (CT). If your attendance percentage is:

- From 0.9 up to and including 1.0 [90% to 100%], then CT is applied 100 percent toward your EC points.
- From 0.75 up to (and excluding) 0.9 [75% to 90%), then one half of the AT percentage is applied as a weight on CT toward your EC points.
- From 0.0 up to (and excluding) 0.75 [0% to 75%), then you get no EC points (EC = 0).

For example: Suppose your AT computes to 0.92 (you've attended 92% of the lectures) and your CT is 0.692 (you've participated in 83 out of 120 *ConceptTests*). Then your EC points are:  $EC = CT = 0.692$ .

Another example: Suppose your AT computes to 0.88 (you've attended 88% of the lectures) and your CT is 0.958 (you've participated in 115 out of 120 *ConceptTests*). Then  $EC = 1/2 * AT * CT = 0.5 * 0.88 * 0.958 = 0.42152$ .

A third example: Suppose your AT computes to 0.68 (you've attended 68% of the lectures). Then your EC points are zero no matter how many *ConceptTests* you've participated in.

Plug the results in the last column into the expression below and solve for TotalWeight.

$$\text{TotalWeight} = \text{HW} * 10 + \text{L} * 20 + \text{M1} * 22.5 + \text{M2} * 22.5 + \text{EC} * 5 + \text{F} * (25 - \text{EC} * 5)$$

You can also use the [Grade Estimator](#). This tool is available from the course Web site.

Final grades are based on your TotalWeight with:

- A- cutoff at 90
- B- cutoff at 80
- C- cutoff at 70
- D cutoff at 60
- F is below 60

These cutoffs may be lowered, but they will not be raised.

Scores will be posted using the eGradebook system: <http://www.d.umn.edu/egradebook/>.

### Syllabus or Schedule Revision

The instructor reserves the right to make changes to the course syllabus or schedule at any time. Revisions will be posted on the course Web site and announced during lecture.

### Course Material

You are responsible for reading assigned textbook material and for obtaining any material covered in lecture and lab, including:

- lecture notes.
- assignments and handouts.
- turning in labs and homework.
- viewing films.

### Missed Class Sessions

If you are unable to attend a class meeting (lecture or lab), it is your responsibility to obtain any notes, assignments, and extra copies of handouts from a fellow student.

If you must miss a class meeting where an assignment must be turned in, you should either:

- turn in the assignment early.
- prearrange the absence with the instructor.

See UMD's Excused Absence Policy at [http://www.d.umn.edu/catalogs/current/pol\\_proc/excused\\_absense.html](http://www.d.umn.edu/catalogs/current/pol_proc/excused_absense.html).

### Academic Dishonesty

All assignments are to be your own work -- there will be **NO** group assignments in this course. The copying of another student's assignment will NOT be tolerated.

Assignment submissions that are overly similar could result in the involved individuals to be called into the instructor's office and possible plagiarism charges imposed. The repercussions resulting from these charges will vary on a per-case basis and can be turned over to the University as a charge of academic dishonesty.

Academic dishonesty tarnishes UMD's reputation and discredits the accomplishments of students. UMD is

committed to providing students every possible opportunity to grow in mind and spirit. This pledge can only be redeemed in an environment of trust, honesty, and fairness. As a result, academic dishonesty is regarded as a serious offense by all members of the academic community. In keeping with this ideal, this course will adhere to UMD's Student Academic Integrity Policy, which can be found at [http://www.d.umn.edu/conduct/integrity/Academic\\_Integrity\\_Policy.htm](http://www.d.umn.edu/conduct/integrity/Academic_Integrity_Policy.htm). This policy sanctions students engaging in academic dishonesty with penalties up to and including expulsion from the university for repeat offenders.

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### Student Conduct

The instructor will enforce and students are expected to follow the University's Student Conduct Code (<http://www.d.umn.edu/conduct/code/>). Appropriate classroom conduct promotes an environment of academic achievement and integrity. Disruptive classroom behavior that substantially or repeatedly interrupts either the instructor's ability to teach, or student learning, is prohibited. Disruptive behavior includes inappropriate use of technology in the classroom. Examples include ringing cell phones, text-messaging, watching videos, playing computer games, doing email, or surfing the Internet on your computer instead of note-taking or other instructor-sanctioned activities.

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### Assignments

#### Expectations

- Attend all lecture and lab sessions.
- Do your own work on all assignments.
- NEVER place any of your work on a Web server. Even in a "secret" directory for "just" a couple of minutes.
- You should expect to put 9 hours per week (on average) into this course [3 hours of your time for each credit hour]. This includes attending two hours of lecture and one hour of lab each week. So, you should expect to spend 6 hours per week working on course-related material outside of the formally scheduled course time.

#### Submissions

Hard copy (paper) of homework and lab assignments is required to be turned in.

- Submission can be made:
  1. at the beginning of class on the due date.
  2. in class drop box in MWAH 177 before due date.
  3. during lecture before due date.

#### Late Work

Late work will be handled in the following manner: Assignments

- turned in at beginning of class session on the due date (or turned in before the due date) - full credit.
- turned in any later time on the due date or the next day - 25% deduction.
- beyond one day late - zero points.

The instructor's consent is mandatory for extensions to assignment due dates. Do **NOT** approach your teaching assistant to obtain a due date extension.

#### Help

If you need help with an assignment, start with:

1. course materials, such as text, notes, and previous assignments.
2. your own TA during their office hours.
3. a tutor at the [UMD Tutoring Center](#) in Solon Campus Center 40.
4. the instructor during office hours.

When e-mailing for assistance with a problem, you must include the course (cs1011) and your lab section number (sec 3) in the subject of your e-mail.

#### Assignment Points

In order to earn points, each assignment must exceed a threshold of 40% of available points.

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### Equal Opportunity

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation. As your instructor, I am committed to upholding University of Minnesota's equal opportunity policy. I encourage you to talk to me in private about any concerns you have related to equal opportunity in the classroom. To inquire further about the University's policy on equal opportunity, contact the Office of Equal Opportunity at <http://www.d.umn.edu/equaloo/>, 255 DAdB, phone: (218) 726-6827, email: [equaloo@d.umn.edu](mailto:equaloo@d.umn.edu).

### Students with Disabilities

It is the policy and practice of the University of Minnesota Duluth to create inclusive learning environments for all students, including students with disabilities. If there are aspects of this course that result in barriers to your inclusion or your ability to meet course requirements - such as time limited exams, inaccessible web content, or the use of non-captioned videos - please notify the instructor as soon as possible. You are also encouraged to contact the Office of Disability Resources (DR) to discuss and arrange reasonable accommodations. Please call 218-726-6130 or visit the DR website at <http://www.d.umn.edu/access/> for more information.

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