

**CSCI 101: Problem Solving with Computers**  
**Lab 11: Algorithms and Charting your personalized goals using Excel**

**Due Dates**      **Sec A: 11/16/10 by 11:59 pm; Sec B, C: 11/17/10 by 11:59 pm**  
**Email to:** [csci101fall10lab11@yahoo.com](mailto:csci101fall10lab11@yahoo.com)

**Important:** please read through the entire lab because it contains useful information – it will save you time in the long run. AND remember you will be tested in concepts taken from both lecture and lab material. This lab may take more than the lab period – you are always expected to continue lab exercises beyond the class hours.

This lab may be challenging. Be sure to start on time so that if you need help you can come and see me or the tutors with time to spare. Also the basic concepts for this lab is covered in lecture so be sure to refer to your lecture notes.

**Goals**

1. to further familiarize yourself with spreadsheets
2. to recognize problems that a spreadsheet can be useful for solving
3. to use spreadsheets to effectively convey information, meaning, and context

**Overview**

1. Open Excel in the Windows environment
2. Save it on the shared drive on your desktop as LastName\_FirstName\_Lab11 e.g. Hardy\_Nazli\_Lab11.
3. Follow this naming format for all labs
4. Under no circumstances should there be any sharing of answers
5. Be sure to save your work on your MyVille Briefcase before you log off – and you will be able to access your files from anywhere. Remember that even if you save it on the desktop of the lab computer, your work may/ will be lost upon you logging off. **Keep your files saved for the duration of this semester.**

**Submission Guidelines**

1. Once you have finished the lab, please attach your document to the email address listed at the top of this page – copy and paste the email address so that you are assured of reaching the correct email address. There will be a new email address for each lab.
2. Please do not email labs to my email account.
3. The heading of your email should be **LastName\_FirstName\_Lab#**
4. If you have successfully submitted your lab, you should received the following autoreply:  
From: CSCI101 Fall [mailto:[csci101fall10lab11@yahoo.com](mailto:csci101fall10lab11@yahoo.com)]  
Sent: Date of Receipt  
To: you  
Subject: Receipt of Lab

Dear Student,

Your lab has been received.

Thank you,  
Dr. Hardy

## Overview

For part I, II, III of this lab you will use Excel. For part IV you will use Word.

### Part I, II, III

- Create a new sheet for each part, naming each sheet as My Days, My Degree, My Dreams, respectively.
- You are expected to “own” this lab and customize the look and feel – it is a reflection of your goals and dreams and also a time line of how you will achieve them.
- This outline of courses do not have to be completely accurate, but it will help you make a general (anticipated) plan for your semester
- The screenshots provided are samples and incomplete - but yours should highly personalized and complete. Give each part due thought

### Part I: My Days

- Given that it is registration season, create a weekly calendar of all the classes you need (or anticipate needing) study time/ work time. play time for Spring 2011  
Hint: Run DARS for your major or run a “What If” Analysis if you are undeclared major  
The days of the week should be listed in the columns, while the times should be listed in the rows
- See sample below

	A	B	C	D	E	F	G	H
1								
2		Mon	Tues	Wed	Thurs	Fri	Sat	Sun
3	8-9 AM	CSCI 161					sleep	
4	9-10 AM	CSCI 162						
5				CSCI 140				
6								
7								
8								
9		Study 161						
10								
11								friends
12		work	work	work	Soccer	Soccer	work	friends
13							work	friends
14								friends
15	8-9 PM							
16	9-10 PM							

## Part II: My Degree

- Create a spreadsheet for all the classes you need (or anticipate needing) to complete your degree. List each class in its own row.  
Hint: Run DARS for your major or run a "What If" Analysis if you are undeclared major. The classes should be listed in the rows
- For each class, list whether it is required or elective or Gen Ed
- For each class, list the prerequisite next to it (not shown in samples)
- For each class, list which semester it was (or will be) taken
- For each class, list the credits next to it
- For each class that already has been taken, list your numeric grade, i.e. 4 for A, 3 for B etc.
- Calculate your current GPA using Excel formulae (you will not receive credit unless you use formulae – see figures below for hints and guidance )

1	A	B	C	D	E	F	G
2	Class	Req/Elec/ Gen Ed	Semester	Credits	Grade		
3	CS01140	Req	Fa 10	4	4		
4	CS01161	Req	Fa 10	4	4		
5							
6							
7							
8							
9							
10	CS01395	Elec	Sp 12	4			
11							
12	CS01221	Gen Ed	Fa 11	4			
13	Total			4			
14	GPA						

1	A	B	C	D	E	F	G
2	Class	Req/Elec/ Gen Ed	Semester	Credits	Grade	GPA Calc	
3	CS01140	Req	Fa 10	4	4	16	
4	CS01161	Req	Fa 10	4	4		
5							
6							
7							
8							
9							
10	CS01395	Elec	Sp 12	4			
11							
12	CS01221	Gen Ed	Fa 11	4			
13	Total			4			
14	GPA						

1	A	B	C	D	E	F	G
2	Class	Req/Elec/ Gen Ed	Semester	Credits	Num Grad	GPA Calc	Grade
3	CS01140	Req	Fa 10	4	4	16	A
4	CS01161	Req	Fa 10	4	4	16	A
5							
6							
7							
8							
9							
10	CS01395	Elec	Sp 12	4			
11							
12	CS01221	Gen Ed	Fa 11	4			
13	Current Total			8		32	
14	Current GPA					4	