CSE/ISE300 Communications S14

- Location: Room 2205 Computer Science, 2nd floor, Multimedia Lab
- Time: Tue/Thur 5:30-6:50PM
- Instructor: Professor Larry Wittie
- Office/Lab: Room 1308 Computer Science, 1st floor, Network Lab
- Office Hours: 4:10-5:25+7-7:15pm Tu/Th, if door is ajar, or by appointment
- Phone: 632-8750 (not 2-8456)
- Email: larry.wittie@stonybrook.edu
- Course Homepage: http://www.cs.sunysb.edu/~lw/teaching/cse300
Revised Resume (4%) Due 4/17/14
In-Class Paper 3 Outline Also Due 4/17/14

Grade Counts (1%) Resume Draft S14 '300

- Max 95
- Average 81.1 = B-
- Min 65
Revised Resume (4%) Due 4/17/14

1. Center your name in larger bold font
2. Center your address, phone, email in smaller font
3. Align section entry parts consistently vertically
4. Put key sections first (goal & job experience then colleges with dates, degrees, majors, GPAs)
5. Order entries by ending dates, ‘ – present’ first
6. Use same fonts & capitalization in section heads
7. Be consistent in entries (all end with ‘.’s or none)
8. Check carefully for typos and bad punctuation
9. Above all, organize well so all lines fit neatly
Revised Resume (4%) Due 4/17/14

Use the comments on your draft resume, handed back today, to revise your resume before the start of the next class, Thursday, 4/17/14. Submit both a printed 1- or 2-page version at start of class and the source (doc or docx) emailed, Subject: 300 resume, to larry.wittie@stonybrook.edu. Your revised resume counts for an additional 4% of your cumulative numeric score for the course.

An in-class outline of Paper3 is due via email with Subject: 300 Paper3 outline at the end of class, 4/17.
In-Class One Page Paper3 Outline: 4/17/14

A Working Title for Your Paper
Your Name      The date

What was your code’s main function?
What were its inputs and its results?
What programming language did you use?

Who wrote the code (you or you as part of a team?),
for what initial purpose or course, and when?

Short outline: what major algorithms and data structures?

Short paragraph on any code topic or question about Paper3.

Email Subject: 300 Paper3 outline to larry.wittie@stonybrook.edu

Comments on Paper3 Outlines: Back Tuesday 4/22/14
Quiz in class 4/22 on word usage and sentence rewriting.
CSE/ISE 300
New Computer Talks: Day 4, 15 April 2014

Speakers Order
Day 4 Tuesday 4/15/14

4.1  Jason Huang
4.2  Andy Hong
4.3  Shafir Uddin
4.4  Shiwei He
4.5  Jerry Luo
4.6  Brendan Rivers
Talks on Why I Need a New Work Computer began in class on Thursday, 27 March 2014.

Aim for a 7-minute (6-8 min.) talk to your boss and colleagues in your company. Persuasively request a new computer for your work. Justify why the firm will benefit from buying you (or your team) new computer(s). Be clear why you need a new machine, what computer model with what features, and what total price from what source.

Bring your own laptop (Mac or PC with VGA capability) or bring your power point slides for a PC on a USB stick or CD.

Email your ppt (or pptx) slides to larry.wittie@stonybrook.edu with the Subject: 300 slides.
CSE/ISE 300
New Computer Talks

Derive your talk from your memo2 submission, but with visual aids, 4 to 10 slides. Explain why you need a new computer, its type, and how it will increase your value to the firm. (In doing so, let me know what is your job and your company’s business, but in a way that will not bore your boss, who knows what business, but not why you need a new machine for your own job.) Describe the key technical features of your new computer; tell why each one is critical for you to do your job more efficiently. Precisely specify the computer brand, model, cost, and vendor. Convince your boss to spend a little money.

On the slide just before your final “conclusions” slide, list all web and printed references used for your talk, including the precise URLs of all websites which gave you details about your desired new computer. Use a small font, if needed to fit at bottom of the slide.

See lectures 12+13 for guidelines on slide creation and talk delivery.
Problems in Talks Last Semester

1. Speaking too fast, especially with accented English
2. Mumbling just before finishing discussion of a slide
3. Slide tables and graphics copied from the web
4. Too many details in tables and lists
5. Too many colors in tables on one slide
6. Too small, illegible fonts used in tables and graphics
7. Reading from screen too often, not scanning the audience
8. Not speaking for at least six minutes
Problems in Talks This Semester

1. Talking too fast - **Speak for seven (6 to 8) minutes**
2. Mumbling just before finishing discussion of a slide
3. Speaking softly - **Talk loudly to reach the back wall**
4. Reading from screen too often, not scanning faces
5. Too much verbatim text from written memo2
6. Black text on dark grey, blue, or purple background
7. Text in bottom 1/5\textsuperscript{th} of slides hidden by iMac screens
8. Saying “uhh - uhh” during pauses in your talk.
9. Forgetting to email your ‘300 slides to larry.wittie
1. Avoid vague words like “nice” and non-specific phrases like “a lot of” and “another university”.

2. Avoid abrupt transitions between paragraphs

3. Avoid repeated thoughts, words, and phrases.

4. Do not use any contractions, no don’t, no can’t, and no it’s.

5. Avoid sentences starting with “So”, “Thus”, and “Also”.

6. Avoid sentences starting with “I think that” or “I believe”.

7. Avoid most uses of “due to” and all that mean “because of”.

8. Avoid lack of organization. Have sentences that fit together into paragraphs (and sections with section headers, in long papers).

9. Read, edit, and re-read what you write, preferably after a night of sleep before the final editing pass.
The final and major paper for this course will be due Thursday 8 May, both a printed version submitted at start of class and a single source file (doc or docx) email to larry.wittie@stonybrook.edu with the Subject: line containing 300 paper 3 code. Paper 3 counts for 30% of your cumulative numeric score, which will determine your final course grade of A, B, C, or F. A passing grade is mandatory for graduation.

No Penalty if submitted by Thursday 5/8/14 start of class.
CSE/ISE 300
Paper 3 Code Documentation

Your paper 3 must be four to six prose text pages of effective final documentation for a significantly large program that you personally have written. The code should be 100 to 600 lines that you created and must be included as an appendix to your paper. All the rules for what counts as text in the first two papers apply for paper 3. The code in the appendix and any code quoted in the body of your paper do not count in the minimum of four pages.

Your paper must be interesting to read but also must be well organized. It must explain your code so clearly that it can help another professional improve your code.
CSE/ISE 300
Size Requirements for Paper 3

Paper 3 must be at least 4 pages long, excluding lines that do not contain English prose text written by you and excluding the appendices. To be safe on length, aim for 5 pages with about 150 counted lines of text in 12 font and 1,950 to 2,400 words that count.

Remember that only prose lines written by you count - not tables of contents, tables of figures, section headers, figures, tables, captions for figures or tables, numbered or bulleted lists, blank lines, quoted text, references to sources, the title for your paper, or your name.
CSE/ISE 300
More Requirements for Paper 3

The maximum length of paper3’s text part is 10 pages, including uncounted items. The appendix must not exceed 8 pages: code in the appendix may be in a tiny font and 2 or 3 columns. Number code lines; single-space your code. Combine all parts of paper3 into a single .docx or .doc file.

Many non-counted text items can make your paper more interesting to read, better organized, and graded higher. Full text lines must be 6 inches wide and on average hold 13 to 16 words. Each full page must have 30 or more lines (whether or not counted) spaced by 1.5, not single-spaced and not double-spaced. Number all pages.
Suggestions for Start of Paper 3

In grading paper3, I expect to see many factual details that will help a programmer if she has to modify your code.

What are the code’s major function, its inputs and its results?

Who wrote the code, for what initial purpose, and when?

Tersely, what are the major algorithms and data structures? (Do not enumerate every module, like every tree in a forest.)

What are the major limitations of the code, of its internal data structures, and of the formats assumed for its input data?

How thoroughly was the code tested and with what input data (your appendix should list one or more complete test sets)?
Suggestions for End of Paper 3

What code parts do not yet work? What may fix them?

What portions of the code are particularly tricky and may cause undesired side effects if changed hastily?

What changes would you have made to the code if you had more time to work on it? How would the changes improve it?

What special advice do you give anyone changing the code?

Remember to end your paper with a Conclusions paragraph, followed by an Appendix with all the Code and precise References to all your sources for Paper3.
CSE/ISE 300

Paper 3 Code Document - Structure Sample

By Friday 25 April, send a single source file (doc or docx) by email to larry.wittie@stonybrook.edu with the Subject: line containing 300 Paper 3 sample.

From paper3 include only:
1. The optional cover page, if you have one
2. The title, your name, and date
3. The first paragraph – abstract or introduction
4. Each section header in the order within your Paper 3
5. The concluding paragraph
6. The first two pages of your appendix code
7. The number of pages of code in total

We will return comments on the structure of your Paper 3 by Thursday, 1 May 2014.
Use:
1. Margins maybe as small as 0.75” on all four edges
2. Single spacing for lines of code
3. Sans-serif mono-width font, such as Monaco, for code.
4. Different fonts for text words and code_names on report lines
5. Numbers on all lines of code, including comments, in appendix
6. Numbers for all pages of both paper report and appendix
7. Multiple columns & small font sizes to fit code into 8 pages max
8. Column separators as narrow as 0.1” (0.1 inch)
CSE/ISE 300
Font Samples for Paper3 Code in Text.

Helvetica
The quick brown fox jumps over the lazy dog.

Times
The quick brown fox jumps over the lazy dog.

Andale Mono
The quick brown fox jumps over the lazy dog.

Courier
The quick brown fox jumps over the lazy dog.

Monaco
The quick brown fox jumps over the lazy dog.
CSE/ISE 300
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