**CS590 Introduction to Research and Publishing in CS**

**Fall 2011**

**CRN 41666**

**Instructor: Rika Yoshii**

**Class: TR 1:00-2:15 in SCI2 308**

**Office Hours: TR 11-12**

**Phone: 750-4121**

**Email: ryoshii@csusm.edu**

**Web page: http://www.csusm.edu/cs/ryoshii**

***This document contains important information about the course.***

***You are responsible for knowing all rules and procedures discussed***

***in this document.***

***This class does not count towards the 30 units for your degree. By passing this class, you will pass the GWAR.***

This **special GWAR course** will introduce you to the research techniques and publishing styles in Computer Science.

This course was designed to help graduate students prepare for their CS698 and CS699 courses in which independent research abilities and writing skills are required.

Because of the size of this class, we will conduct meetings in an interactive seminar style. Much collaborative learning will be required. Please do not treat it as other students criticizing you, but treat it as others helping you learn from their views. After all, that is what research is about.

**Learning Outcomes:**

* Know what research in computer science is about.
* Know the types of papers in computer science and their formats.
* Be able to identify common grammar errors.
* Know the writing styles in computer science.
* Know how to do literature review.

**Required Reading Materials**

**Prentice Hall Handbook for Writers** by Kramer et. al. (1995) {available as used books} will be used as your writer's handbook. Please use this to check your grammar and punctuation as you produce work for this class and others. If you know of a better grammar book, purchase that one.

We will also use **many published papers** as examples.

You will be asked to read journals, proceedings and other papers found on the web to discover what is happening in the field of your interest.

**On-line notes** will be available. They will be located in /home/cs/cs590RY on empress.csusm.edu. Assignments will also be found there. You should use FileZilla to download the files.

**Importance of Email**

I will very frequently make announcements in electronic mail.

You are responsible for checking your email whenever you are on campus and more often if you have access from home.

Please feel free to send me questions over email.

**Importance of Class Participation**

This course will be conducted as a seminar. Therefore, class participation will be a major part of your grade.

Attendance will be taken at meetings. For each day that you participate actively, 2pts will be given.

You will engage in **discussions, peer review, and presentations** during the meetings.

**Assignments**

Assignments will require writing **parts of a research paper**.

You will submit a hard copy to me at the start of the meetings and also email a soft copy to me and all class-mates at the same time.

**Project**

One of the major assignments will be a **literature review** of the field of your interest. You will be required to survey the published works on the topic of your choice, and write a survey chapter of your mock thesis.

You will also report the findings in a presentation to the class.

Therefore, please learn how to use Power Point and Word.

**How to Succeed**

As with any graduate level course, you will be asked to spend at least 8 hours a week outside the class meetings for preparation, assignments and working on the project.

Do not attempt to write a paper at the last minute. Writing takes many days of self-editing.

**Late Submission Policy**

This class requires peer review. Thus, if you are late in submitting your work, others will not be able to review your work.

Thus, no late work will be accepted PERIOD for credit.

**Incomplete**

Please refer to the CS program policy about Incompletes posted on our Web page. They are given only for emergency cases!!

**Grading Criteria**

Your grade will be based on the following criteria and scale:

Attendance /Participation - 30%

Non-Project Assignements - 30%

Project - 40%

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Total - 100%

Total Grade

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93-100 A

90-92 A-

88-89 B+

**83-87 B**

80-82 B-

78-79 C+

70-77 C

65-69 C-

63-64 D+

60-62 D

56-59 D-

0-55 F

This is an absolute scale. You can guarantee yourself a particular grade by attaining the appropriate overall percentage.

You will not have to worry how other students are doing.

The scale may be adjusted down depending on the class performance, but it will never be adjusted upwards.

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**Tentative Schedule - Starting Tuesday August 30th**

**The last day to add/drop is Sept 12.**

**Veterans Day Nov 11 (Friday)**

**Thanksgiving week Nov 24-27 (Week 13 Thursday No Class)**

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**Week1**

* **Syllabus and Introduction**
* Different Types of Papers in CS
* Usual Parts of a Research Paper
* IEEE Guidelines

**==> HW1 🡺 Due week 2 Tuesday (hard copy)**

* List of conferences and journals (also EMAIL to ALL)
* Create a conference paper template (in preparation for Week 7)

**Week2**

* What constitutes a publishable research project?
* What do you need to do to prove your theories?

**==> In-class Exercises**

**Week3**

* Steps to go through for 699 or 698
* Parts of a thesis or a project write-up

**==> In-Class Exercises**

**Week4**

* Literature Review (Phase I and Phase II)
  + purpose
  + what to review
  + what to report
  + what to keep
  + what to conclude

**==> PROJECT (Literature Review):**

**Find a project topic and start collecting**

**a list of papers to review for the PHASE I report (see Week 6).**

**Week5**

* Guest Speaker from the Writing Center
* Common grammar errors

**==> In-Class Exercises**

**Week6**

* Preliminary presentations on the literature review (PHASE I) to get feedback from others. This will help you complete the report.

**==> PROJECT: PHASE I report is due on Tuesday of Week 8 (hard copy)**

**==> PROJECT: PHASE II report is due on Tuesday of Week 13 (via EMAIL to me since there will be no class that day.)**

**While you are working on the Project, we will write a conference paper on Quick Sort. HW will be due on Mondays as EMAIL to ALL, but a hard copy is due to me at the start of the Tuesday class.**

**Week7**

* Writing Introduction and Background

**==> HW2 Introduction&Background 🡺 due week 8 Monday – email to ALL**

**Week8**

* Peer Review HW2
* Writing the Description of your theories

**==> HW3 Theory 🡺 due week 9 Monday – email to ALL**

**Week9**

* Peer Review HW3
* Writing the Description of your work

**==> HW4 Work 🡺 due week 10 Monday – email to ALL**

**Week10**

* Peer Review HW4
* Describing the results

**==> HW5 Results 🡺 due week 11 Monday – email to ALL**

**Week11**

* Peer Review HW5
* Writing the Conclusion and Future Research

**==> HW6 Conclusion 🡺 due week 12 Monday – email to ALL**

**Week12**

* Peer Review HW6
* Writing the Abstract

**==> HW7 Abstract 🡺 due week 13 Monday - email to ALL**

**Week13-14**

*Work on Presentation Slides and Literature Review Paper at home*

**Week 15 and 16** **Finals Week**

**Project Presentations!!!!**

**Final presentation slides and paper are due at the start of your presentation.**