

SENIOR PROJECTS

2002-2003

Agenda

- Library Resources for Senior Projects
- Relevance: Job Search and Graduate School
- New Procedures, Policies, etc.
- VDC Community Based Project
- Other topics:
 - 5-Year BS/MS Program
 - COEN 197: Undergraduate Research

Library Resources

Susan Boyd

Relevance

- Letter from Tim Bisson, BSCE, 2002
- Comments from Jennifer Magpayo, BSCE, 2002

SENIOR PROJECTS

2002-2003

Concept

- **cap·stone** *n.*

~~1. The top stone of a structure or wall.~~

2. The crowning achievement or final stroke; the culmination or acme¹.

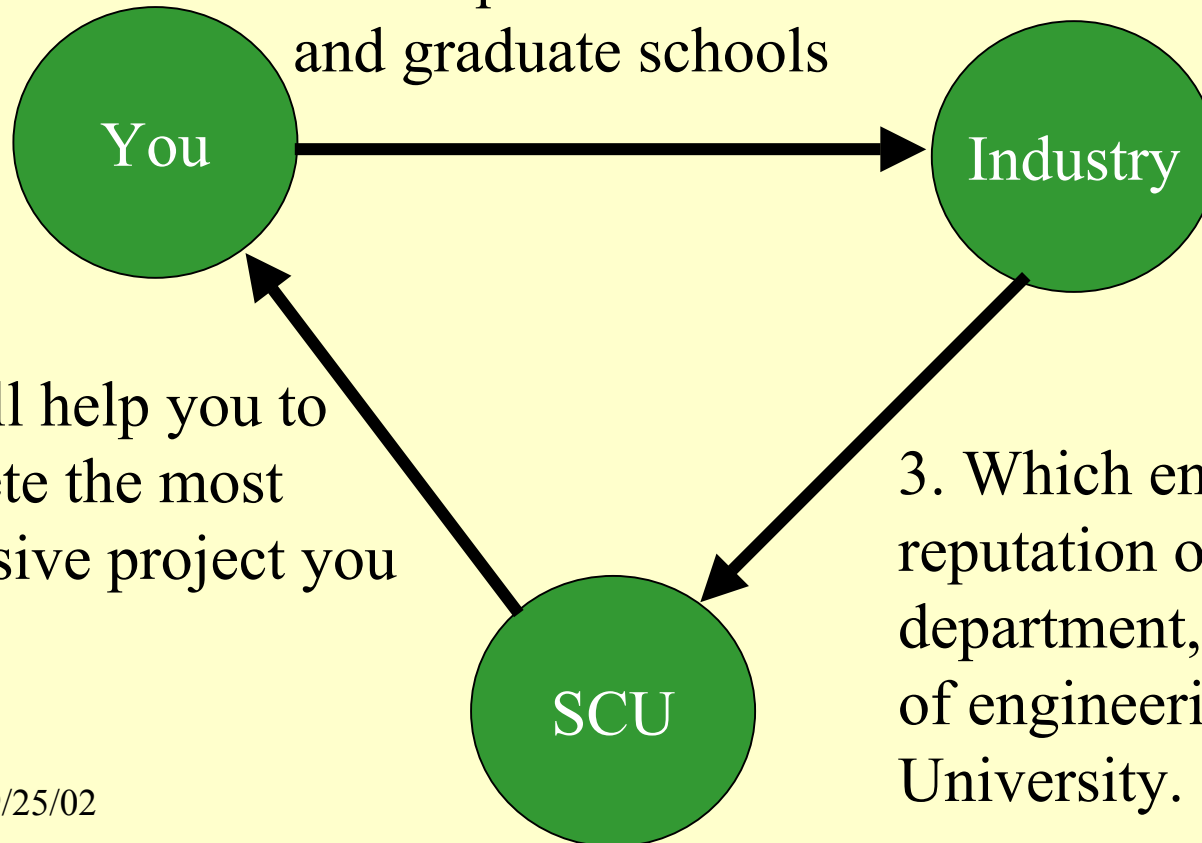
¹acme: The highest point, as of achievement or development:
reached the acme of her career.

Importance

- Demonstrates your ability to apply knowledge from a variety of topics within computing, math, engineering, and the humanities to a problem worth solving.
- Recruiters WILL ask about your senior project! Choose a project that companies would care about!

~~We Want You to Succeed!~~

2. Significant projects will impress recruiters and graduate schools



1. We'll help you to complete the most impressive project you can.

3. Which enhances the reputation of the department, the school of engineering, and the University.

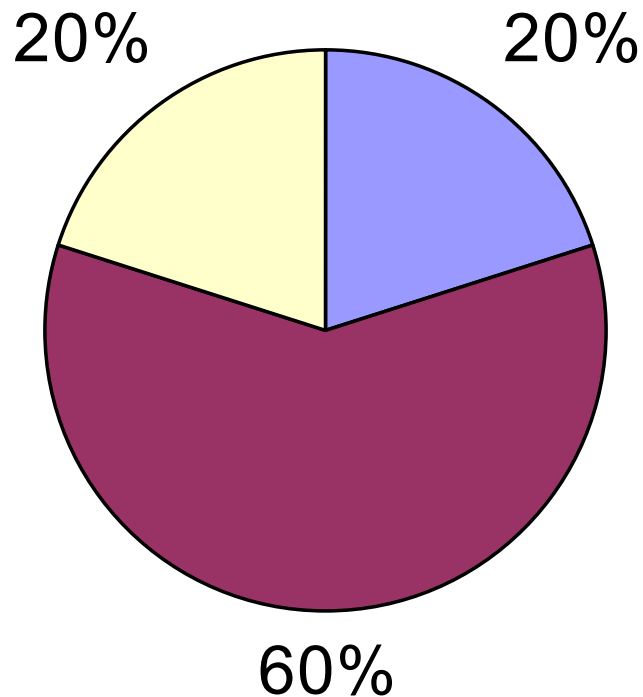
Past Issues

1. Students needed to get started earlier.
 - Some already were starting over summer.
2. Vague specification of deliverables.
3. Vague specification of due dates.
4. Non-uniform grading.

New Policy Document

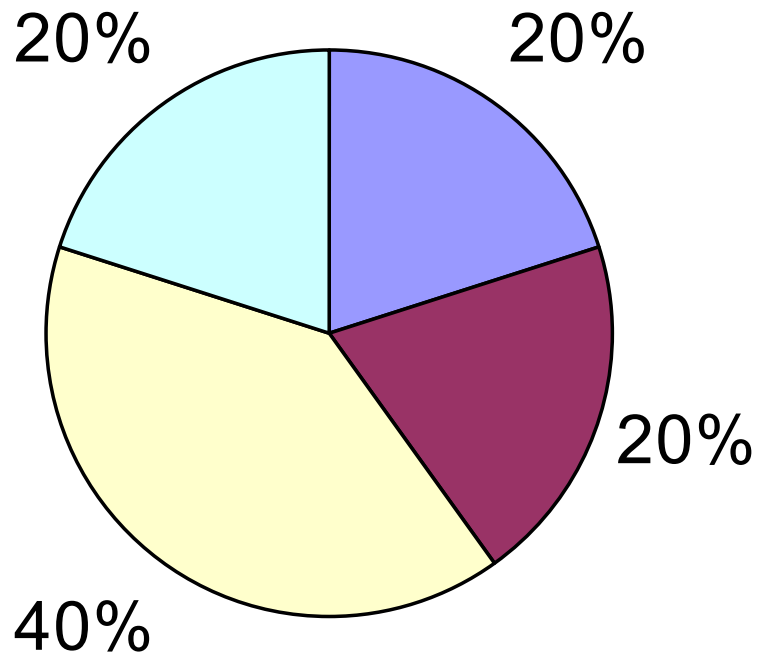
<http://www.cse.scu.edu/srprojects/policy.pdf>

COEN 194 Grade (Fall)



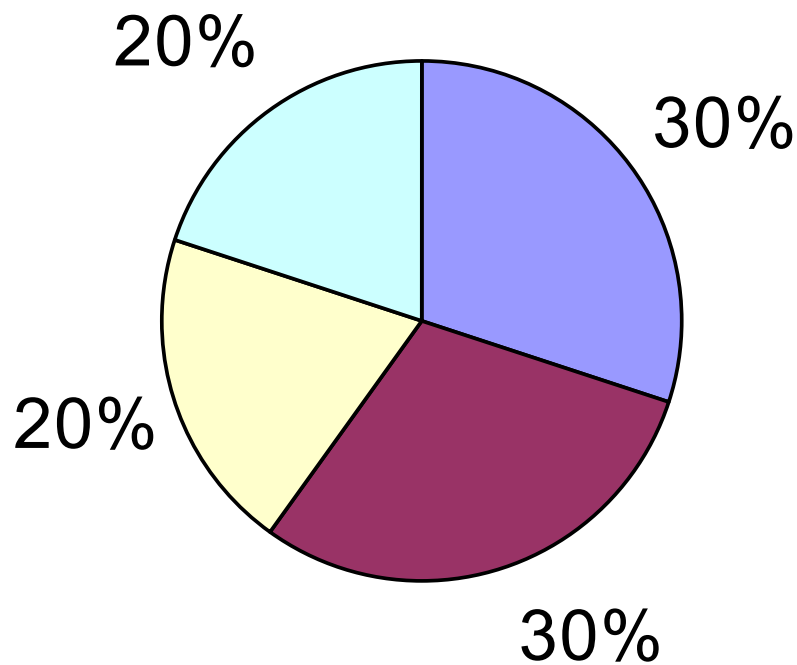
- Problem Statement
- Design Report
- Advisor Discretion

COEN 195 Grade (Winter)



- Revised Design Report
- Design Review
- Operational System
- Advisor Discretion

COEN 196 Grade (Spring)



- Comprehensive Report
- Implementation
- Conference Presentation
- Advisor Discretion

Due Dates

(Reminders on the calendar at www.cse.scu.edu)

Fall

- **Oct 11:** Problem statement approved
- **Dec 6:** Design report

Winter

- **Jan 31:** Revised design report
- **Mar 14:** Operational system

Spring

- **Jun 6:** Comprehensive report and completed implementation

Grading Policy

Late Penalty

20% per week or fraction of a week

Letter Grades

Only A, B, C, D, F, (+/-) or I (Incomplete).

A grade of "N" is not allowed.

Failure of any course (COEN 194, 195, 196)

Must retake entire sequence.

Missed Design Review or Design Conference

Grade of zero on that component.

Plagiarism

1st offense → grade of zero on deliverable

2nd offense → failure in course

Project Advisors

Accepting Projects:

Davis, Dr. Ruth E.
Dommel, Dr. Hans-Peter
Holliday, Dr. JoAnne
Kitts, Chris
Lewis, Dr. Daniel W.
Li, Dr. Qiang
Ling, Dr. Nam
Mikkilineni, Dr. Rani
Noll, Dr. John
Schwarz, Dr. Thomas
Shang, Dr. Weijia

No Longer Accepting Additional Projects:

Atkinson, Dr. Darren
Figueira, Dr. Silvia
Quinn, Dr. Neil R.

Web Resources

<http://www.cse.scu.edu/send.cgi?Z&srprojects/index.htm>

Past Reports (searchable)

Procedures, Requirements, Deadlines, etc.

- Project Suggestions
- Procedures and Grading Policies (PDF)
- Content, Organization, and Format of the Report
- Ownership, Patents, and Copyright

Help Writing a Technical Report

- Grammatical Style (General)
- Use of Passive Voice
- Writing for Real-World Audiences
- Writing for Nonspecialist Readers
- Strunk, "The Elements of Style" (online!)

Report

Restart numbering here with page "1".

1. Signature Page
2. Title Page
3. Abstract
4. Acknowledgements
5. Table of Contents
6. List of Figures
7. List of Tables
8. Introduction
(First Chapter)
9. Main Body
(Middle Chapters)
10. Conclusions
(Last Chapter)
11. References
12. Appendices

Start here with page "1".

VDC

Dr. Rani Mikkilineni

5-Year BS/MS Program

Features

- Take a few MS courses during senior year
- Graduate courses taken while an undergraduate are already covered by your full-time tuition.
- Many MS core courses are replaced by free electives due to similar undergraduate courses
- Satisfies Integrated Education requirement

Two MS Degree Programs

- MS in Computer Engineering
 - Broad-based core
 - Five specialization tracks: networks, security, software engineering, multimedia, architecture and systems
- MS in Software Engineering
 - Narrow focus, greater depth
 - No specialization tracks

Admission

- BS in Engineering, Math, or Science from SCU
- Minimum 2.75 gpa

COEN 197

Undergraduate Research

Satisfies Integrated Education
Requirement

Catalog Description

COEN 197 - Research

Involves working in a one-year-long research project with one of the faculty members. Students should register three times in a row for a total of 6 units.

Does not substitute the senior project, which may be a continuation of the research done.

Registration requires the faculty member's approval. Students must have junior or senior status and a minimum GPA of 3.0. (2 units)