Senior Design - Spring 2015
EE/CpE 424

Class 1 – 1/20/15
Outline

- Spring 2015 tasks
- Fall 2014 grades
- Upcoming priorities, class schedule, announcements
Senior Design Tasks – Spring ‘15

- **Publish interim project report**
- **Develop final report**
- **Submit final report**
- **Oral/slide/poster presentations/demos**

- **Web site updates (1st)**
- **Weekly status Group Eff. Reports (Monday)**

- **Today**
- **Design Day: 4/29**

Timeline events:
- 2/1
- 3/1
- 4/1
- 5/1/08

**Important Dates:****
- **February 1**: Build, debug, test
- **March 1**: Publish interim project report
- **April 1**: Develop final report
- **May 1**: Submit final report
- **April 29**: Design Day

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EE/CpE424:
Senior Design
Spring 2008

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Senior Design Tasks – Spring ‘15

Today

- Publish interim project report
- Develop final report
- Submit final report
- Oral/slide/poster presentations/demos

Web site updates (1st)
Weekly status Group Eff. Reports (Monday)

99 days until Design Day

Design Day: 4/29
Senior Design Grading Fall ‘14

Each group’s faculty advisor determined 67% of group’s grade. Each advisor set criteria appropriate to the project and their policies. For groups I advised, this part of the grade was based on:

- Use of appropriate engineering judgment 25%
- Appropriate level of effort 25%
- Establishing a realistic schedule and adhering to it 25%
- Responsiveness to advisor feedback 25%

As course coordinator I determined 33% of grade, based on

- Timeliness, completeness of deliverables 25%
- Initial project proposal 25%
- Presentation 15%
- Web site 10%
- Final project proposal/Component list 25%
Senior Design Fall ‘14 Final Grades

Overall grade

<table>
<thead>
<tr>
<th>Grade</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
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<tr>
<td>A-</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>B+</td>
<td>2</td>
</tr>
<tr>
<td>B+</td>
<td>1</td>
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<tr>
<td>C+</td>
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<tr>
<td>D</td>
<td>1</td>
</tr>
<tr>
<td>D+</td>
<td>1</td>
</tr>
</tbody>
</table>
Grade Correlation

Advisor grade

Coordinator grade

R² = 0.46418
Components of Coordinator Grade

- Midterm report
- Final report
- Weekly reports
- Presentation
- Web sites

Grade Distribution:
- <60
- 60-69
- 70-79
- 80-89
- 90-95
- 95-100
- >100
Components of Coordinator Grade

- Midterm report
- Final report
- Weekly reports
- Presentation
- Web sites

Many consistently excellent groups
Components of Coordinator Grade

Many consistently excellent groups

A few with outstanding efforts

- Midterm report
- Final report
- Weekly reports
- Presentation
- Web sites

Scores:
- <60
- 60-69
- 70-79
- 80-89
- 90-95
- 95-100
- >100
Components of Coordinator Grade

- Midterm report
- Final report
- Weekly reports
- Presentation
- Web sites

Many consistently excellent groups

Marginal efforts impacted a few

A few with outstanding efforts

Graph showing distribution of components of coordinator grade.
Components of Coordinator Grade

Areas to watch

- Midterm report
- Final report
- Weekly reports
- Presentation
- Web sites

Reports

- <60
- 60-69
- 70-79
- 80-89
- 90-95
- 95-100
- >100

Graph showing the distribution of grades for different components.
Components of Coordinator Grade

Areas to watch

- Midterm report
- Final report
- Weekly reports
- Presentation
- Web sites

Weekly Reports

<60  60-69  70-79  80-89  90-95  95-100  >100
Components of Coordinator Grade

Midterm report

- <60
- 60-69
- 70-79
- 80-89
- 90-95
- 95-100
- >100
Components of Coordinator Grade

Weekly reports

- <60: 4
- 60-69: 1
- 70-79: 2
- 80-89: 2
- 90-95: 1
- 95-100: 3
- >100: 0

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Components of Coordinator Grade

Presentation

- <60
- 60-69
- 70-79
- 80-89
- 90-95
- 95-100
- >100
Components of Coordinator Grade

Web sites

- <60
- 60-69
- 70-79
- 80-89
- 90-95
- 95-100
- >100

Web sites
Deliverables Schedule

• Weekly reports are due weekly by Noon, Monday.
  – Both Group Weekly reports and individual group effectiveness reports.
  – To ensure proper credit, email separately (status vs. effectiveness)
  – If emailed, attachment MUST be labeled as:
    Course_number-your_Stevens_email_ID-Group#-submission_info
    e.g., EE424-bmcnair-Group27-weekly_report.doc

• Web sites will be graded the 1st of each month. All weekly reports, interim and final reports, presentations, and brochures must be posted on web site immediately after due date, hosted on tiger.ece.stevens-tech.edu

• Interim project report due Tuesday after Spring Break (3/24/15)

• Design Day is April 29th
  – Details will be provided later including Design Day brochure requirements
  – Electrical power, network connections, and other needs will be identified ~midterm

• Final Report due Tuesday, May 5th
Other items

• Senior Design expense reimbursement:
  – At the end of the semester
  – For items required for Senior Design
  – $400 per group
  – Items that are paid for by the ECE Department must be returned to the ECE Department

• Class schedule:
  – If we meet, it will be 3-4 on Tuesday
  – Classes will meet less frequently in Spring than in Fall
    • You should be working with groups and advisor.

• Lab equipment and supplies
  – B213 is available for use during regular business hours
  – See me for specialty items and passive components
  – Coordinate lab space access with me, Maria Toloza or Cecilia Jololian
  – See me to borrow test equipment

• Award$:
  – Rochester Institute of Technology IEEE Student Design Competition
  – Senior Design Technogenesis Awards
  – Farleigh Dickenson IEEE competition