

ENGR 310

Lecture 19

31 Mar 2008



MONTANA
STATE UNIVERSITY

College of
ENGINEERING

Mountains & Minds

Announcements

- Project Planning assignment due this week ahead of recitation
- Exam: one week from today (April 7)
- Friday: review for the exam



Expectations

- Time:
 - 6-8 hrs/wk outside of class, each person
 - assumes effective teamwork strategies
 - some may need to “make up” hours
- Budget:
 - Team members contribute out-of-pocket
 - Team decides
 - Guideline: < \$50 / person



Project Expectations

<http://www.coe.montana.edu/engr310/Project/default.htm>



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Journals

- TA's report continued improvement
 - Good Job!
- Two more checks: check 4 + final check
- Use the journal as part of your regular project work
- 15% of your course grade



Journal Entry for Computer Work

4/1/08 AutoCAD work - solo

start

3:10 pm Preparation:

- solid model of frame - follow sketch on p. 51
- create part list for frame
- part drawings for legs and struts

Work completed:



Journal Entry for Computer Work

Work completed:

*-solid model complete, saved to Z-drive under ENGR310
filename: frameSM*

*-part list created in Excel, saved to Z-drive
filename: frame_partlist.xls*

-part drawings for front legs started

→ need to figure out attachment points to struts

→ will the feet work on

implosion, around? Ask team,



Journal Entry for Computer Work

→ need to figure out attachment points to struts
→ will the feet work on uneven ground? Ask team

Next steps:

- Send email to team about stability on uneven ground
- Talk to John about best way to fasten struts

end
4:30 pm



Why Project Planning Now?

- How could you possibly have created a realistic project plan earlier?



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Teamwork Skills Development

- We will do a self and peer evaluation today
- Will be collected and given to your TA
- TA will do an independent assessment
- TA will meet with you next week to discuss
 - All responses will be aggregated, anonymous



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Purpose: - To help you become a better team player
- NOT a direct input to your grade



Five Sets of Teamwork Skills

1. Interpersonal communication and collaboration
2. Understanding & communicating trade-offs and empathy for diverse perspectives
3. Planning/organization and accountability/reliability
4. Common goals/shared outcomes and conflict management, resolution
5. Willingness to learn and inclusive decision-making



Five Performance Levels

1. Team Catalyst
2. Team Player
3. Contributor
4. Group Member
5. Individualist



Interpersonal Communication & Collaboration

1. Stimulates team unity by advancing ideas of others, willingly filling in gaps of team performance, and by proactively and clearly communicating to facilitate progress toward team goals.
2. Supports team unity through reliable communications and by improving others' performance through cooperation.
3. Adds to team unity by listening well, sharing ideas, contributing to team communications, and assisting in producing outcomes.
4. Makes a modest impact on team unity by sharing few ideas, communicating infrequently, and doing only what is assigned.
5. Weakens team unity by ignoring others' ideas, not participating in team communications, and by limiting working with others.

Which number most accurately describes yourself?
Each Team Member?



Understanding, communicating trade-offs and empathy for diverse perspectives

1. Values disciplinary and personal style differences and promotes the use of these differences in team processes in order to produce a higher quality outcome.
2. Understands disciplinary and personal style differences and supports the use of these differences in team processes.
3. Willing to take into account disciplinary and personal style differences in team processes.
4. Has a limited understanding of the value of disciplinary and personal style differences and limits the effectiveness of the team's work by not accounting for these differences.
5. Does not value or understand disciplinary/personal style differences and hinders the effectiveness of the team by not supporting these differences.

Which number most accurately describes yourself?
Each Team Member?



Planning/organization and Accountability/reliability

1. Essential to the planning and tracking of the team's work and works faithfully to engender trust.
2. Works with the team to plan and track the team's work and can be trusted for timely completion of assignments and commitments.
3. Plays a supporting role in planning and tracking the team's work and is generally reliable for contributions to the team.
4. Not essential to the planning and tracking of the team's work and can be relied on with supervision.
5. Hinders the planning and tracking of the team's work by not contributing and is seldom reliable.

Which number most accurately describes yourself?
Each Team Member?

Common goals/shared outcomes & Conflict management/resolution

1. Facilitates conflict management for both individual and group development and attainment of common goals.
2. Alters personal behavior to focus on the use of conflict to develop and attain common goals.
3. Appreciates the positive potential of conflict but makes limited use of it in developing and attaining common goals.
4. Recognizes existing conflicts, but contributes little to the use of conflicts to develop and attain common goals.
5. Avoids or ignores all conflict, which could derail efforts toward developing and attaining common goals.

Which number most accurately describes yourself?
Each Team Member?

Willingness to learn and inclusive decision-making

1. Sensitive solicits input from all team members and continually learns from others and from the team process.
2. Willingly contributes to an inclusive decision making process and learns from the team process.
3. Contributes to decisions and is open to learning from working with others.
4. Makes contributions to decisions, but sometimes insensitively or inappropriately. Learns little from the group.
5. Does not value the contributions of others and rarely learns from the group process.

Which number most accurately describes yourself?
Each Team Member?

Conclusion

- Turn in your completed evaluation before you leave
- In journals: reflect on the 1-2 areas that you plan to work on, and specifically how.

