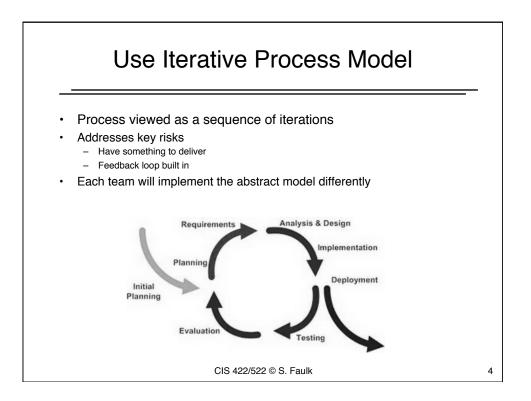
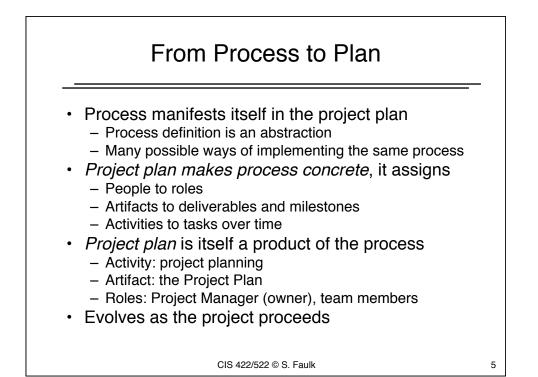


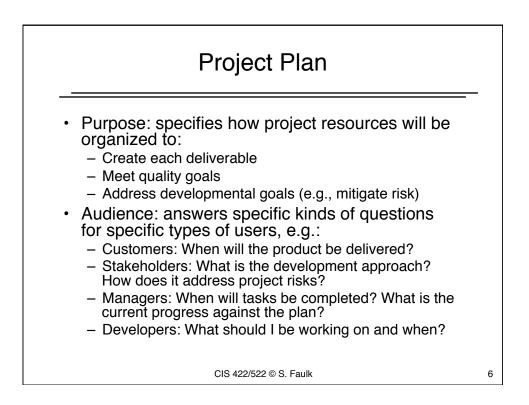


• Nature of a software project

- Software development produces a set of interlocking, interdependent work products
 - E.g. Requirements -> Design -> Code -> Test
- Implies dependencies between tasks
- Implies dependencies between people
- Must organize the work such that:
 - Every task gets done
 - Tasks get done in the right order
 - Tasks are done by the right people
 - The product has the desired qualities
 - The end product is produced on time

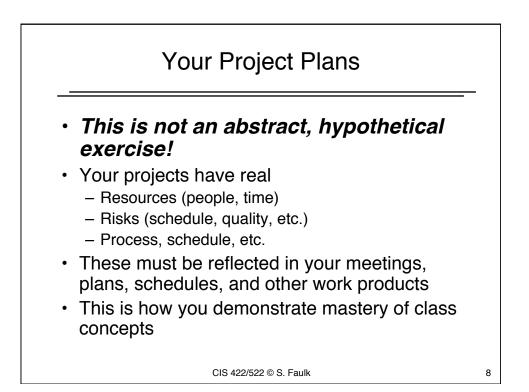






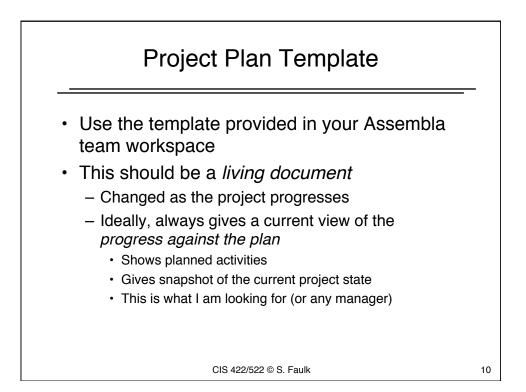
Plan Outline

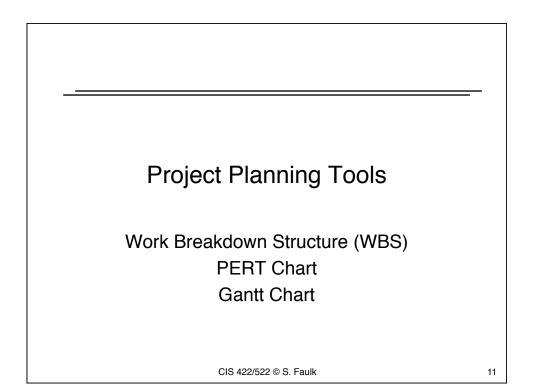
- Plan contents (template)
 - Purpose and audience (who will use the document?)
 - Project background
 - Team roles and responsibilities
 - Risks and risk mitigation
 - What are the key risks? (Team should brainstorm this)
 - · Which mitigation strategies will the project deploy
 - Process: development process, how its tailored, rationale
 - Mechanisms, methods, and techniques
 - What kinds of methods and tools will be used?
 - E.g., planning tools, design methods, IDEs, etc.
 - Detailed schedule and milestones
 - Resources and references

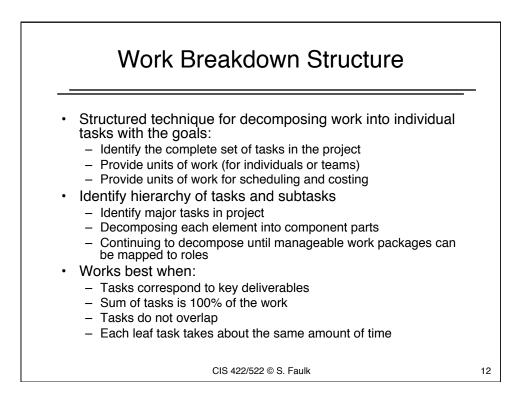


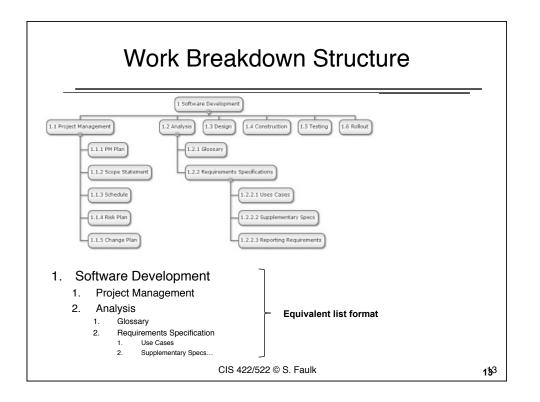


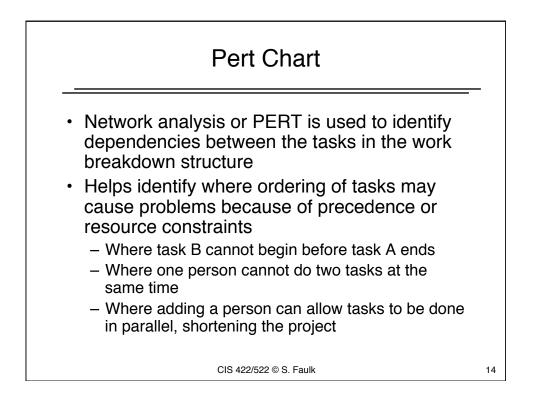
- Maps people to tasks over time such that
 - Delivery meets schedule
 - Personnel are fully engaged (time is not wasted)
- Answers: "Who is working on which tasks, what is their progress, and when will they be finished?"
- Inputs
 - Set of artifacts to be created (superset of deliverables)
 - Dependencies/precedence between tasks
 - People filling roles that perform tasks
 - Time budget for each task
- Output
 - Current project schedule
 - Deadline for each task
 - Sequencing among tasks
 - Allocation of people to tasks

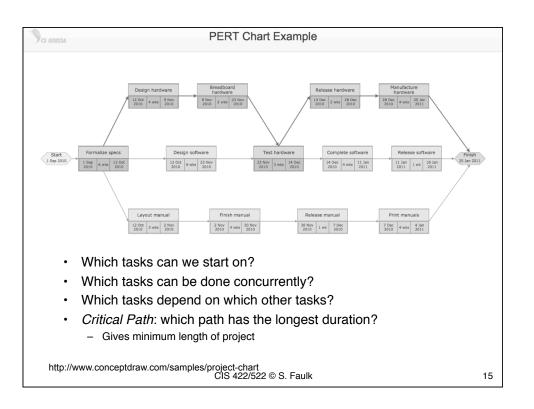


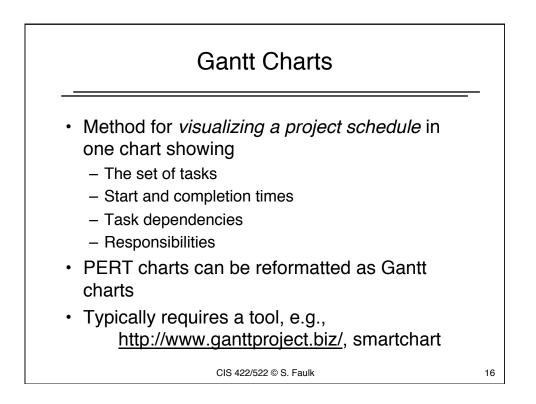


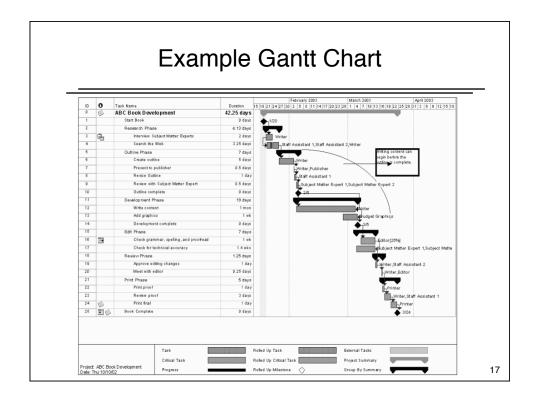


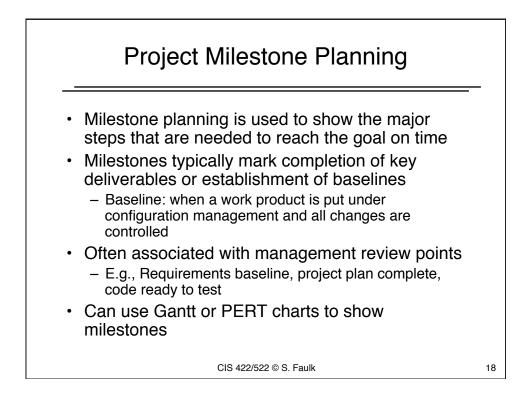




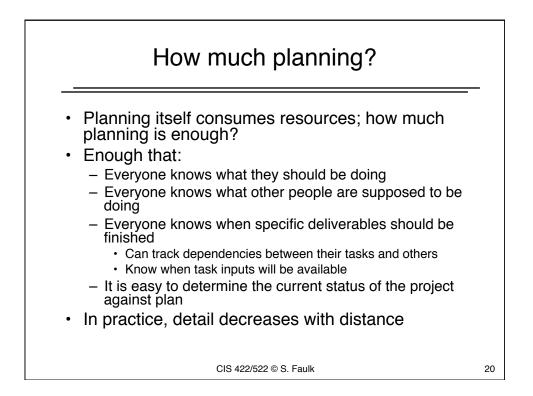








eek 1:								
Date Assigned Due Date		Due Date	Task	Person F	Person Responsible		us	Date Completed
2/3 2/5		2/5	Brainstorm project ideas	Brainstorm project ideas Everyone		Complete		2/5
2/3 2/4		2/4	Set up meeting w/ instructor	Set up meeting w/ instructor Heidi		Complete		2/3
2/3 2/6		2/6	Decide on project	Everyone	Everyone		plete	2/6
2/6 2/10		2/10	Create Git repository	Heidi	Heidi		plete	2/6
Veek 2:								
Date Assigned	Due	e Date T			Person Responsible		Status	Date Completed
2/10	2/10	D C	Decide on software requirements		Everyone		Complete	2/10
2/10	2/18	5 F	and design 1st iteration		Everyone		Complete	2/13
2/10	2/10		et up meeting w/ Kathleen Freeman-Hennessy		Heidi		Complete	2/10
2/13	2/15		/rite ConOps		Nicole, Heidi		Complete	3/2
2/13	2/19	9 V	project plan		Nicole, Heidi		Complete	2/19
2/13	2/22	2 V	Vrite software requirements	software requirements		Nicole, Heidi		3/2
2/15	2/24	4 li	ment 1st iteration		Dex, Hans, Yakun		Complete	2/24

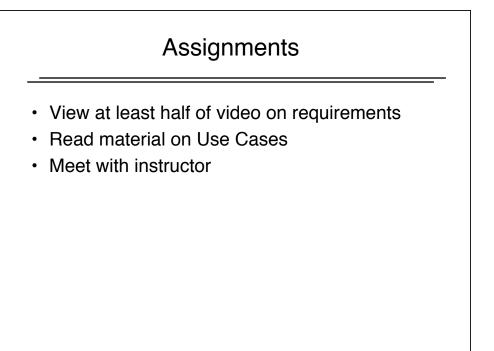


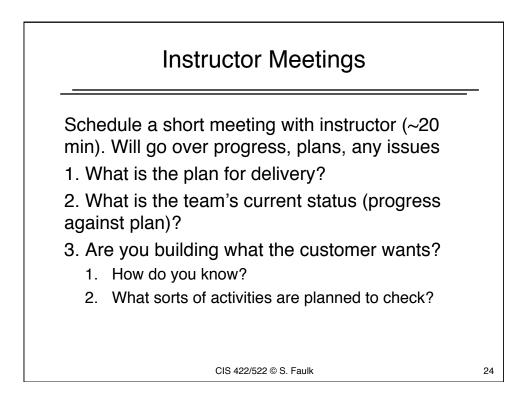


Summary

- Project plan makes process concrete
 - People to roles
 - Artifacts to deliverables and milestones
 - Activities to tasks over time
- Plan is key to organizing the work but expect it to change
 - The plan is nothing, the planning is everything D.
 Eisenhower
- Should understand the use of common planning tools (WBS, Pert, Gantt)

CIS 422/522 © S. Faulk





Customer Meetings

- Stakeholder feedback is critical to product acceptance
 - i.e., essential feedback in the control-loop
- Time with stakeholders is a precious resource
- Need planning to optimize what you get out of it
 - Identify critical meeting objectives ("What are the most important issues requiring feedback?")
 - Show up with questions and proposals to walk through
 - Ask if anything is missing that should have been covered

