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### CS 541.01: Requirements & Specifications

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# Course Syllabus

## CS 541 Requirements & Specifications

**PREREQUISITE:** MATH 225, CS 331 and CS 335, or consent of instructor.

**COURSE OBJECTIVES:**

You will gain an understanding of Software Engineering, including process and product issues, planning, management, quality assurance, configuration management, and measurement. In addition, you will learn and put into practice methods and techniques for eliciting, analyzing, specifying, reviewing, and presenting software requirements and specifications using both conventional and object-oriented methods.

**INSTRUCTOR:**

Name: Joel Henry  
Office: Social Sciences 411  
Office Hours: MWF 9-10; Tuesday, Thursday 1-2  
**If the door is open I am available....**  
E-mail address: henryj@cs.umt.edu  
Phone: 243-2218

**TOPICS:**

- I. Software product and process.
- II. Project management.
- III. Process and process measurements.
- IV. Project planning and scheduling.
- V. Project management.
- VI. Software quality assurance.
- VII. Configuration management.
- VIII. Conventional requirements analysis and specification.
- IX. Object-oriented requirements analysis and specification.
- X. CASE tools and environments.

**Texts:**

*Software Engineering*, Pressman, and  
*Fundamentals of Object-Oriented Design in UML*, Page-Jones

**Course Deliverables:**

Tests (3 @ 20% each):	60%
Assignments (5-6):	30%
Presentations (2-4):	10%

**Grading:**

Grading scale: 59.5 or lower F, 59.6-69.5 D, 69.6-79.5 C, 79.6-89.5 B, 89.6 – 100 A

**Late Policy:** Hand in materials:

1 day (24 hours) -	10%
2 days (48 hours) -	30%
3 days (72 hours) -	50%
4 days or more -	No thanks, I don't want it.

Presentations:

No late presentations.

## Computer Science 541 - Syllabus

### Cheating:

Plagiarism will be handled harshly, as per the Student Conduct Code. You may fail the assignment or the course. MY ADVICE: Take an F rather than cheat.

### Tentative Schedule:

Week	Tuesday	Thursday	Material	Assignment
1	Sept. 5 – Introduction, Syllabus, Course Information, Software Product	Sept. 7 – Software product and process	Pressman Preface, Chapters 1 & 2	Informal presentation assigned
2	Sept. 12 – Project Management	<b>Sept. 14 – Project Management, presentations</b>	Pressman Chapter 3	Informal presentations due September 14
3	Sept. 19 – Process and Project Metrics	Sept. 21 – Project Planning	Pressman Chapters 4 & 5	Homework assigned
4	Sept. 26 – Project Planning	<b>Sept. 28 – Homework Due</b>	Pressman Chapter 5	Homework due September 28
5	Oct. 3 – Homework returned, test review	<b>Oct. 5 – Test 1</b>	Review Pressman and class materials	Prepare for test – open note, open book
6	Oct. 10 – Test returned and reviewed, Risk analysis	Oct. 12 – Risk, Project scheduling and tracking	Pressman Chapters 6 & 7	Homework assigned
7	Oct. 17 – Project Tracking	<b>Oct. 19 – Quality Assurance, Presentation</b>	Pressman Chapters 7 & 8	Homework due October 19
8	Oct. 24 – Configuration Management	Oct. 26 – Configuration Management	Pressman Chapter 9	Homework assigned October 24
9	Oct. 31 – System Engineering, Introduction to Requirements	<b>Nov. 2 – Requirements engineering</b>	Pressman Chapter 10 and class materials	Homework due November 2
10	Nov. 7 – No class, Election Day Holiday	Nov. 9 – Analysis Concepts	Pressman Chapter 11	Homework assigned November 7
11	<b>Nov. 14 – Analysis Modeling, introduction to Rational Rose</b>	Nov. 16 – Analysis Modeling, Rational Rose	Pressman Chapter 12	Homework due November 14
12	<b>Nov. 21 – Test 2</b>	Nov. 23 – Thanksgiving Holiday	Review Pressman and class materials	Prepare for test – open note, open book
13	Nov. 28 – Return and review test, Object-Oriented Paradigm	Nov. 30 - Object-Oriented Paradigm	Pressman Chapter 20	Top-Level Requirements (TLR) assigned Nov. 28
14	Dec. 5 – Object-Oriented Analysis	<b>Dec. 7 - Object-Oriented Analysis, Presentations</b>	Pressman Chapter 21	TLR informal Status presentation due December 7
15	Dec. 12 – CASE Tools	<b>Dec. 14 – CASE Tools, Presentations</b>	Pressman Chapter 31	TLR due Dec. 14
16	<b>Wednesday, December 20</b>	<b>3:20-5:20</b>		<b>Final Exam</b>