

HS 4990: The Design Process

Instructor:	Dr. Charles Freeman
Office:	216 Lloyd-Ricks Watson Hall
Office Phone:	325-1293
E-mail:	CFreeman@humansci.msstate.edu
Office Hours:	Monday & Tuesday 11:00am – 1:00pm
Time of Class:	Monday and Wednesday 2:00 – 3:50 PM
Classroom:	

Course Objectives:

As a result of the course, students will:

1. Define and explore various design processes: creative and functional.
2. Conduct ideation and solutions generation techniques.
3. Conduct research related to potential solutions of pre-determined problems.
4. Work in conjunction with specified community partner to create solutions to identified need, teach and learn from community partners in relation to problem resolution, reflect on learning process as relates to project objectives and outcomes.
5. Create prototypes and utilize professional presentation techniques.
6. Analyze and reflect on project objectives and outcomes.

Recommended Text:

Koberg, D. and Bagnall, J. (2003). *The universal traveler: A soft-systems guide to creativity, problem solving, and the process of reaching goals*. Crisp Learning. ISBN: 1560526793

Student Activities:

In class Assignments: Each class we will engage in various activities related to the design process including ideation strategies, research processes, problem identification, etc. Attendance and participation will be graded EVERY class meeting.

Sketchbook/Journal: Each student will keep a portfolio/sketchbook/journal to document ideas, inspirations, solutions, research ideas, etc. These will be checked at three unannounced times during the semester.

Midterm: The midterm will be a project progress report. You will present a professional status report on your project, problem identification, potential solutions, current research, current needs, future plans, and anticipated outcomes.

Final Project: For the Final Project you will professionally present your idea/proposed project at an event organized through the Center for Service-Learning Excellence. In addition, you will complete a design process report outlining selected design processes, steps and documentation for each stage, analysis of learning objectives compared to outcomes, and a reflection on the learning process.

Summary of Student Evaluation:

In-class Assignments	300
Sketchbook/Journal (3@50pts.)	150
Midterm	200
Final Project	300
Professionalism	50
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	1000 pts

Letter grades will be based on the following guidelines:

900-1000 =	A
800-899 =	B
700-799 =	C
600-699 =	D
Below 600 =	F

Course Policies:

Attendance: Students are *expected* to attend all regularly scheduled class sessions. Missing this class will quickly snowball, as many of the concepts build upon one another. Attendance is the difference between a great grade and an average or worse grade.

Twitter: This class in addition to being supported by mycourses will have an alternative support system via Twitter. Should you choose to use this, you can follow the instructor on Twitter @cf617. Any questions you may have throughout the semester, no matter the time feel free to post these on Twitter and either I or another follower can answer your question.

Missed Assignments: There is no make-up in this class and late assignments are NOT accepted. Only an approved university sanctioned event will permit you to complete an assignment early. If you miss a project due date for an EXTREME circumstance, you must provide verifiable documentation immediately upon return and you must contact me (via a friend or family member if necessary) the day of your due date. Should you

have a death in the family, again a verifiable excuse is necessary. If you are a victim of these unfortunate circumstances, your make-up will be a one-question essay.

Service-learning: A holistic pedagogy that integrates meaningful community service, community engagement, or civic engagement into academic course objectives through experiential learning and critical reflection to enrich the educational experience of students, teach civic responsibility, and meet the needs of a community.

Students with Special Needs: It is the responsibility of any student who has special needs [Section 504 of the Rehabilitation Act and the Americans with Disabilities Act (ADA)] to inform the instructor as soon as possible so reasonable accommodations may be provided. The student must self-identify concerning disability documentation that is as recent as within the last three (3) years and request necessary accommodations.

Honor Code: Mississippi State University has an approved Honor Code that applies to all students. The code is as follows:

"As a Mississippi State University student I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do." Upon accepting admission to Mississippi State University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor Code. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the MSU community from the requirements or the processes of the Honor Code. For additional information please visit: <http://www.msstate.edu/dept/audit/1207A.html>

Topic
Week 1 M: Course introduction & overview of design process W: Introduction to Problem Identification
Week 2 M: Problem Identification - Deconstruction W: Problem Identification - Isolation
Week 3 M: Design Processes - Creative W: Design Processes - Creative

Topic
Week 4 M: Design Processes - Functional W: Design Processes - Functional
Week 5 M: Ideation Strategies W: Ideation Techniques
Week 6 M: Solution Filtering W: Solution Filtering
Week 7 M: Objectives Outlining W: Objectives Measurement
Week 8 M: Midterm Report W: Current Research Strategies
Week 9 M: Current Research Strategies W: Current Research Strategies
Week 10 M: Solution Generation W: Solution Generation
Week 11 M: Experiential Learning W: Experiential Learning
Week 12 M: Analysis and Solutions Management W: Analysis and Solutions Management
Week 13 M: Reflection and Assessment W: Re-Direction and Project Completion
Week 14 M: Final Project Preparation W: Final Project Preparation
Week 15 M: Final Project Presentation W: Final Project Presentation
Final Exam: Final presentations and critiques.