**Course Catalog Description**

First of a two course sequence in which students develop a complex IT System starting from customer requirements and progressing through the entire analysis, design, implementation, testing and delivery lifecycle. Students work in teams to develop a project plan, complete the technical components of the project, prepare a variety of deliverable documents, and finally deliver the finished product to the customer. The first course will focus on the analysis and design of the system.

**Course Outcomes**

1

**Textbook:**

*none*

**Prerequisites**

CSCE 3055

**Course Requirements:**

- **Attendance:** Required
- **Exams:** None
- **Project:** The majority of the assignments in this course will relate to a large group project that will extend into the CSCE 4925 class in the spring semester
- **Assignments:** There will be a few initial individual assignments and a number of group deliverables throughout the semester

**For More information**

- **Faculty Webpage:** [www.cse.unt.edu/~dkeathly](http://www.cse.unt.edu/~dkeathly)
- **Class Web Page:** [http://learn.unt.edu](http://learn.unt.edu)
Topics

- The Nature of Design
- Project management
- Defining System Requirements
- Analysis Modeling
- Preliminary and Detailed design
- Implementation
- The project lifecycle
- Team Planning, Coordination and Survival
- System Testing
- Delivery
- Reliability
- Ethics and Social Responsibility

Course Calendar (subject to change)

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Readings, Materials and Assignments</th>
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</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Lecture: Course Overview, Setup Team Room, Personal Assessment, Lecture: Nature of Design</td>
<td>see lecture notes on class web page</td>
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<td>Week 2</td>
<td>Lecture: Team and Project Management, Determine Teams and Team Names, IA -1 presentations</td>
<td>see lecture notes on class web page</td>
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<tr>
<td>Week 3</td>
<td>Lecture: Project Lifecycle, brainstorm project ideas, meet with client, Status Report</td>
<td>see lecture notes on class web page</td>
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<td>Week 4</td>
<td>Project ID and Need, Lecture: Development Methodologies, Lecture: Requirements</td>
<td>see lecture notes on class web page</td>
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<td>Week 5</td>
<td>RUP and Use Cases</td>
<td>see lecture notes on class web page</td>
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<tr>
<td>Week 6</td>
<td>Lecture: Preliminary Design Overview, Status Report</td>
<td>see lecture notes on class web page</td>
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<td>Week 7</td>
<td>Requirements Due</td>
<td>see lecture notes on class web page</td>
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<tr>
<td>Week 8</td>
<td>Review Preliminary Design details</td>
<td>see lecture notes on class web page</td>
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<tr>
<td>Week 9</td>
<td>Lecture/Discussion Detailed Design, Prelim Design Due</td>
<td>see lecture notes on class web page</td>
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### Status Report

<table>
<thead>
<tr>
<th>Week 10</th>
<th>Lecture: Testing</th>
<th>see lecture notes on class web page</th>
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<tbody>
<tr>
<td>Week 11</td>
<td>Lecture: Reliability and Delivery</td>
<td>see lecture notes on class web page</td>
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<tr>
<td>Week 12</td>
<td>Detailed Design Due Status Report</td>
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<tr>
<td>Week 13</td>
<td>Begin Development</td>
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<td>Week 14</td>
<td>Development Work Week Parts and service orders due</td>
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<tr>
<td>Week 15</td>
<td>Continue Development Review activities for Break and Spring semester Status Report</td>
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<tr>
<td>Week 16</td>
<td>Final Presentations Thursday Dec 10 11 am to 1 pm</td>
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### Grading Policy

The various components of your grade are weighted as follows:

- Team Project Deliverables: 40%
- Individual Reports, Presentations and Editorships: 10%
- Team Presentations: 15%
- Peer and Client Performance Reviews and Instructor Assessment: 20%

### Course Policies:

- ABSOLUTELY, NO LATE project assignments will be graded, unless specific arrangements are made with the instructor in advance.
- All assignments will be turned in by midnight on the date due. Assignments may be submitted on Blackboard under the appropriate assignment unless otherwise indicated.
- ALL requests for extensions on assignments must be made prior to the due date, in person, and must be for a valid “emergency” reason. In extreme circumstances, contact after the due date may be accepted if there is a COMPELLING reason.
- Attendance is required, is part of your grade, and will be monitored in order to ensure that all groups operate at peak efficiency. You are responsible for all discussion, lecture and other information disseminated during the lecture period, regardless of whether
you attend or not. You are also responsible for all team assignments made by your team lead and deliverable leads regardless of your attendance. You must provide documentation for excused absences for emergencies etc.

- Lectures and Project assignments are included in this syllabus. However, you should regularly check the class website, as well as take note of in-class announcements for changes in the schedule or assignments.
- You should plan to spend, on average, about 10-15 hours per week outside of the normal class meetings working on the various aspects of your project. As deadlines draw near, the time commitment may increase.

**Collaboration and Cheating:**

Collaboration among students in class is most certainly encouraged, as it is my belief that it provides a better learning environment, and required for team assignments. For further details and clarifications regarding collaboration and cheating, view the university [Student Rights and Responsibilities web page](#).

**Student Evaluation of Teaching Effectiveness (SETE)**

The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class.

**ADA:**

UNT complies with all federal and state laws and regulations regarding discrimination including the Americans with Disability Act of 1990 (ADA). If you have a disability and need a reasonable accommodation for equal access to education or services please contact the Office of Disability Accommodation.