Systems Development and Implementation - BCIS 450/580  
**Instructor:** Jennifer Kreie  
**Classes:** MW 10:00-11:15, BCIS 450/580 in GU 303  
**Office Hours:** Thursday 9:00 AM - 10:30 AM online @ [http://nmsu.adobeconnect.com/kreie_office/](http://nmsu.adobeconnect.com/kreie_office/)  
**Office:** Guthrie 206  
**Office phone:** 646-2990  
**My web page:** [http://web.nmsu.edu/~jkreie](http://web.nmsu.edu/~jkreie)  
**Blackboard:** [http://salsa.nmsu.edu/](http://salsa.nmsu.edu/)

Text -

- *Beginning Oracle Application Express 4*, Doug Gault, Karen Cannell, Patrick Cimolini and Martin Giffy D'Souza, Apress Publishing

**Course Description** - This course teaches the application of software engineering techniques in the development of information systems. This course includes the use of project management techniques and the application of formal analysis, design, and implementation techniques to produce an information system. This course will provide hands-on experience for teams as they work through the phases of system development and system implementation. Team members will use widely used modeling tools for project planning, analysis and design. A CASE tool will also be used during part of the semester for hands-on practice with automated systems development tools. **Prerequisite: IS 350/540 with a grade of C or better.**

**Course Objectives** - The student who completes this course should know:

1. The traditional and RAD (rapid application development) systems development process.
2. Project management.
3. Data migration issues.
4. System testing.
5. Automated tools (CASE) for systems development.
6. Logical and physical database design.
7. Project presentation: Prepare a concise, informative update on project progress.

The student will also have participated in writing project reports and creating a project web page to facilitate project management.

**Examinations** - There will be two exams. The exams will cover concepts from BCIS 350 and also used in this class, software used in class, tutorials and lectures. Exams will be a combination of multiple choice, short answer, and hands-on problem-solving.

If you miss an exam due to illness, work, or a university-sponsored activity, you must provide proper notification to the instructor as soon as possible. If no valid excuse is provided the student will receive a score of zero for the missed exam.

**Individual Assignments** - There will be some individual assignments given throughout the semester to enable each student to practice the techniques and software being taught. Late exercises will be accepted but there will be a 10% penalty for each day. Note: An exercise due at the beginning of class will have a 5% penalty if it is turned in any time later that same day.

**Group Project** - The primary focus of this course is to practice the system development process. Because most system development is done in project teams you will work with a group to complete a project during the semester. It is important that the team consist of people with a range of skills, not just a group of friends that want to hang out together. Some of the skills required for the team to be successful are: project planning and management, negotiation, report and technical writing, data modeling and database design, process modeling, and Web page design and management. Teams will be assigned by the instructor based on anonymous self-ratings made by students and other background information. **Team assignments are made the first day of class.**

**Project Web Page**: Each group will maintain a project web page to help manage the group project by providing links to reports, documentation, prototypes, etc.

**Project Evaluation**: The group project will be approximately one quarter of the overall course grade (the total points includes the peer evaluation score described below). Producing deliverables within deadlines during the project will be part of the overall project grade. In other words, the final version of the project application is not the only thing that's graded. It's important to do well throughout the project and meet deadlines.

**Peer Evaluation**: Each student will be evaluated by his/her teammates in confidential evaluations. This will account for a portion of the
student’s project grade. In other words, everyone on the team may not receive the same grade for the project. Also, there is a 15-point penalty if for anyone who does not submit a peer evaluation by the deadline.

**Team Evaluation:** Each team will meet with the instructor and demonstrate their completed project.

**Attendance Policy** - ATTENDANCE IS REQUIRED while the group project is going on. When time is allocated for project work students must show up to work with their team. If a student must be absent due to illness, work, or a university-sponsored activity, proper notification must be given to the instructor. Otherwise, each absence will cost the student 5 points. If a class is missed, it is the student’s responsibility to obtain notes from a student who attended class and to obtain any assignments from the instructor or another students.

**Class Procedures** - The teaching method for this course will include lecture/discussion, in-class exercises, and individual assignments and a group project. All individual assignments are to be done individually. Ask each other questions? Sure! Give copies of assignment files to each other? No!

To assist you in meeting College expectations with respect to writing and presentation skills, an “Academic Survival Kit” with resources on writing and presentation skills is available on the College web page at [http://business.nmsu.edu/students/survival-kit/](http://business.nmsu.edu/students/survival-kit/).

**Online Procedures** - Most of the course material will be available through the Blackboard site for this class.

There are topics areas in the Discussions section for the major topics of this course. If you have a question about an assignment, please post the question in the Discussions section where everyone can benefit from the information. However, don't use the Discussions section for personal communications unless it's your team's private Discussions section. If you send a question about an assignment through Blackboard email, I may ask you to post in the Discussions section before I respond. Again, everyone should benefit from questions and answers about an assignment.

**Please note:** If you have a question about an exam or assignment score because the score is missing in Canvas, please feel free to email me about the missing score. If you want to know why you got a particular score, i.e., what did you miss and why, please come see me in my office. I will not respond to emails that ask, “Why did I miss 5 points?” or “What did I do wrong on problem 6?” It takes too much time to review an exam or assignment and type out a lengthy explanation via email. We can review the score in question together. Often it is clear to the student what the error is when we review it and sometimes the student is able to explain something about his/her answer which I believe justifies additional credit.

**Students with Disabilities** - If you have, or believe you have, a disability and would benefit from accommodations, you may wish to self-identify. You can do so by providing documentation to the Services for Students with Disabilities (SSD) Office located at Garcia Annex (Phone: Voice 646-6840, TTY 646-1918). If you are already registered with the SDD Office and need accommodations please provide your Accommodation Memo from the SSD within the first two weeks of class.

If you have a condition that may affect your ability to exit safely from the premises in an emergency or that may cause an emergency during class, you are encouraged to discuss this in confidence with the instructor and/or the Coordinator for SSD. Call 646-3333 with any questions about the Americans with Disabilities Act (ADA) and/or Section of the Rehabilitation Act of 1973. All medical information will be held in strict confidence.

**Scholastic Dishonesty** - Scholastic dishonesty will not be tolerated. The penalty for dishonest behavior can range from receiving a zero for an assignment or exam to censure from the University.

**Point Distribution and Grades** - The points possible for this course will be approximately as follows:

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<tr>
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<th>Estimated percentage of overall grade</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>16%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>16%</td>
</tr>
<tr>
<td>Assignments &amp; CASE tutorials</td>
<td>33%</td>
</tr>
<tr>
<td>Team Project</td>
<td>35%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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</tbody>
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Grades will assigned as follows:

- 90% through 100%    A
- 80% through 89%    B
<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>70% through 79%</td>
<td>C</td>
</tr>
<tr>
<td>60% through 69%</td>
<td>D</td>
</tr>
<tr>
<td>Below 60%</td>
<td>F</td>
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