BCIS 495. Enterprise Systems Development
Section 01 Meets TR 2:35 – 3:50 p.m., BC 115

Instructor: Dr. Carlo A. Mora M.  
Office Hours: W: 2:30 – 4:50 p.m.  
or by appointment
Office: Guthrie 218  
Phone: 646-5044  
Website: http://learn.nmsu.edu

Course Description

This class focuses on technologies that enhance the capabilities of Enterprise Systems; namely SAP's programming language, known as ABAP and on SAP’s Enterprise Information Portals. ABAP (Advanced Business Application Programming) is the foundation programming language for SAP and it is intended to be used to enhance SAP applications. Enterprise Portals (EP) is a framework for integrating information, people and processes across organizational boundaries using web-based technologies. This course also covers concepts in EPs (e.g. SAP NetWeaver Portal) and their wide range of options they provide to integrate ERP solutions, third-party applications, legacy systems, databases, unstructured documents, internal and external Web content, and collaboration tools.

Prerequisite: BCIS 485/ BCIS 560 or by consent of instructor.

Course Objectives

By the end of the semester, each student should:

- Gain a basic knowledge of ABAP and its development environment.
- Understand the business processes common to most businesses, including order processing, procurement, etc.
- Understand how EPs provide a single centralized view that span IT silos and organizational boundaries.
- How EPs allow companies to take full advantage of information resources.
- How to use EPs to integrate SAP solutions, third-party applications, legacy systems, databases, unstructured documents, internal and external Web content, and collaboration tools.

Suggested Textbooks

Although there will be no required textbook in the class, I will be using a number of technical textbooks as reference, including:
1. ABAP Basics, Gunther Farber and Julia Kirchner, SAP PRESS/Galileo Press, 2007.
3. Introduction to ABAP/4 Programming for SAP by Gareth M. de Bryun and Robert Lyfareff, Prima Publishing
Point Distribution and Grades

Scores for each category of points will be approximately weighted as shown below.

<table>
<thead>
<tr>
<th>Category</th>
<th>Estimated Percentage of grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
<td>40%</td>
</tr>
<tr>
<td>Labs</td>
<td>30%</td>
</tr>
<tr>
<td>Readings</td>
<td>10%</td>
</tr>
<tr>
<td>Group Project</td>
<td>20%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>105.00%</strong></td>
</tr>
</tbody>
</table>

Grades will be assigned as follows:

- 90% through 100% | A
- 80% through 89.9% | B
- 70% through 79.9% | C
- 60% through 69.9% | D
- Below 60%        | F

**Note:** After all the material is graded, letter grades will be assigned as in the table above. I will do some rounding, but in the following manner: 89.444 is a B, no exceptions, but 89.445 will round to an A.

**Labs.** There will be a large number of labs to enforce the concepts discussed in class. These will be done using SAP related technologies. The purpose of the labs is to give you hands on experience on the topics discussed in class. **NOTE:** you must submit all the assigned labs in order to earn a grade for this class.

**Readings.** I will assign a number of readings during the semester to gain a better understanding of the topics discussed in class. You will be responsible to read the assigned article and answer related questions.

**Exams.** There will be two exams. They will cover material from the lectures and labs. Questions will be a combination of multiple choice and short answer. There might also include essay questions and hands-on exercises.

**Group Project.** The project will be completed in teams of 2 and will involve developing an Enterprise Portal for a fictitious company. Details of the project will be given later in the semester.

**Class Procedures**
The teaching method for this course will include lecture/discussion, in-class and out-of-class labs. All labs are to be done individually.

**General Policies**

**Attendance**
You **are expected to attend class.** Although I will not take attendance, you cannot expect to have a thorough grasp of the material if you miss class. You are responsible for all material or assignments that are covered in class.
Getting help outside office hours

The Discussions section of Blackboard is an extension of my office hours. You are to post all technical questions here. **I will not answer questions about homework in private e-mails.** Make sure you use relevant subject headings for your postings. A good, descriptive subject heading will help other students learn from the answers to your questions. A subject heading of “Error” is not relevant. An example of a more relevant subject heading is “Help: Lab 5 step 20 gives me a different answer.”

If you are going to start a new topic, or ask a new question, make sure that you start a new thread. Continuing a previous thread with a new question will only ensure that most people miss your question. Be sure to include enough information in your question. For example, if you are getting a compilation error, make sure you list the compile line you used, the entire error message, and at least 10 source lines that precede the line about which the compiler is complaining. This will give me more information and thus, the more likely you will get a helpful answer. **Do not wait until the last minute to post a question.** I strongly encourage other students to post answers to questions they see on the Discussion Board.

**Missing Exams**

- Makeup Exams will be given only under extraordinary circumstances and the student must submit a legitimate excuse. Examples of legitimate excuses:

<table>
<thead>
<tr>
<th>If it is …</th>
<th>You have to bring a…</th>
</tr>
</thead>
<tbody>
<tr>
<td>Due to illness:</td>
<td>note from doctor</td>
</tr>
<tr>
<td>Due to business:</td>
<td>note from supervisor</td>
</tr>
<tr>
<td>Death in family:</td>
<td>note from family member and obituary</td>
</tr>
<tr>
<td>Other</td>
<td>on a case-by-case basis</td>
</tr>
</tbody>
</table>

**Read carefully:** I must be informed prior the exam to count as a legitimate excuse. **If you cannot reach me, leave a message at the department’s office (646-4901) indicating time and date.** Notifying me by email will not be sufficient. Notifying me after the exam will result in a grade of zero for that exam. Your excuse must be submitted to me and it must contain a telephone number so that your absence can be verified. **Failure to follow the guidelines will mean that you forfeit the excused absence option.**

If a student misses an exam **without a legitimate excuse**, s(he) will receive a grade of zero for that exam.

**Withdrawal Policy**

Last day to Withdraw is **Monday, March 12**. No faculty or department head signatures are required to drop a class if you drop a class on or before this date.

**Incomplete**

A grade of "I" (Incomplete) will be assigned only in circumstances in agreement with the current NMSU Undergraduate Catalog ([http://www.nmsu.edu/Academic_Progs/Undergraduate_Catalog/ch1/regulations.html](http://www.nmsu.edu/Academic_Progs/Undergraduate_Catalog/ch1/regulations.html)). Incomplete grades are to be given only if a student has passed the first half of the course and is unable to complete the course due to circumstances beyond the student's control. (If the circumstances develop during the first half of the course, the student has the opportunity to drop the class). Examples of appropriate circumstances are documented illness, documented death or crisis in the student's immediate family and similar circumstances. The catalog states that job related circumstances are generally not appropriate grounds for assigning an "I" grade and that this grade is not to be used to avoid assigning a D, F, or U grade.
Academic Misconduct
All work submitted must be your original work. Any work done by groups of more than one (i.e., the work of two or more students is remarkably similar), or too similar to work of previous students will be construed as cheating. Your work must be kept private from others; should your work appear in the work of another student, both parties will be considered to have cheated, both will receive a failing grade for the course. Please refer to the Student Handbook (http://www.nmsu.edu/~vpss/SCOC/student_hand_book.html) for a full description of the NMSU Policy. However, discussion of principles and approaches between class members is encouraged.

Disabilities Statement
If you are a person in need of special accommodations, you will need to provide me with written guidelines for appropriate accommodations for you from the Student Accessibility Services office. No student should be given accommodations for disabilities unless SSD has requested these specific accommodations for the student.

If you have, or believe you have a disability, you may contact the Student Accessibility Services (SAS) Office located in Corbett Center, Room 244, 575-646-6840, or email sas@nmsu.edu. Appropriate accommodations may then be provided for you. All medical information will be treated confidentially. If you have a condition which may affect your ability to exit safely from the premises in an emergency during class, you are encouraged to discuss this in confidence with the instructor and/or the Director of University Disability Services/ADA Coordinator, Diana Quintana, at the SAS Office. Questions regarding the Americans with Disabilities Act (ADA) and/or the American with Disabilities Amendment Act should be directed to the SAS Office.

Questions regarding NMSU's Non-discrimination Policy and discrimination complaints should be referred to Gerard Nevarez, Office of Institutional Equity, 575-646-3635

Professional Behavior Guidelines
Tardiness: Please arrive on time. If you are later than the start of the class, please quietly take a seat nearest the entrance.
Side Conversations: Side conversations make it difficult for your classmates to actively listen and learn.
Sleeping: falling asleep in class is not considered professional behavior. If you are feeling sleepy, please step outside the class for a minute, get a breather, and come back to class.
Inattention: Please do not read other material (chat, browsing the web, books) or study for other courses during the class. It is not polite. Please pay attention and join in the individual and group discussions. It will help you master the material.
Cell Phone: While there are a myriad of appropriate times and places to use one’s cell phone, during a class period is not one of them. Therefore, students are prohibited from using their cell phones during class, regardless of whether they are used for calling or for text messaging purposes. Cell phones should be turned off and stowed away at all times in the classroom. Cell phone use is strictly prohibited during examinations.
Laptop Computers: Students are free to use laptop computers for note taking purposes during class. If a student is discovered using his or her laptop for any other purposes, such as surfing the internet, that student will forfeit the opportunity to use his or her laptop for the remainder of the semester. Personal laptops are prohibited during exams.
Email Etiquette: Email is the preferred means of communication for the instructor. Please use the blackboard email for any communication. When you email the Professor follow some simple rules:
  - Articulate the content of your message clearly. This means you should not use text message or instant message speak. Proper communication standards also apply for any submitted work. For proper writing standards please refer to http://business.nmsu.edu/students/survival-kit/
• Before you send an email, review the course’s Blackboard. It is very likely that you can find an answer to your question(s) by examining this content. Failure to follow these simple rules will generally result in a non-response from the instructor.

Miscellaneous Policies
• Although I will try to maintain the class schedule and objectives, I may need to make adjustments.
• I do not give additional projects to increase one’s grade before or after the exam(s).
• No food or drinks allowed in the lab.