BCIS 455. Section 01
Design of Online Business Systems
Class Meets TR 10:20 – 11:35 a.m., GU 303

Instructor: Dr. Carlo A. Mora M.
Office Hours: TR 2:35 p.m. – 3:35 p.m.
or by appointment
Online Office Hours: Same as above. Refer to Canvas for details.
Office: Guthrie 218
Phone: 646-5044
LMS: http://learn.nmsu.edu

Course Scope

In this course, you will be introduced to the fundamentals of supporting data driven business applications on the Web using Microsoft .NET and related technologies including but not limited to LINQ, XML, SQL, ASP.NET, ASP.NET MVC, etc. This course follows the programming course series and the systems analysis and design course and extends the principles to solve practical integrative problems.

Prerequisite: A letter grade of "C" or better in BCIS 322 and BCIS 350 (or concurrent enrollment).

Course Objectives

By completing this course, a student should be able understand and apply:

- The powerful nature of the .NET framework.
- The Event-driven, Object Oriented, and Model-Controller-View (MVC) programming models.
- Fundamentals of data manipulation including ADO .NET, LINQ, and XML.
- Data driven Web-based applications using ASP.NET, and ASP.NET MVC

Required Materials

3. Development environment. We will be using the latest version of Visual Studio 2012. There are multiple versions of VS, some of which are free to download. More details will be given in class.

Responsibilities

As your teacher I have the following responsibilities:

- Come prepared to every class.
- Plan my class so you can accomplish the objectives listed above.
- Treat you as responsible adults.
- Consider that is not always your fault if you don’t understand the material.
- Encourage you to ask and answer questions.

As students you have the following responsibilities:

- Come prepared to every class.
- Complete all work on time with proper thought.
- Behave as responsible adults.
- Consider that it is not always my fault if you don’t understand the material.
- Treat others with respect.
Point Distribution and Grades

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

<table>
<thead>
<tr>
<th></th>
<th>Percent of total points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming Assignments (pa)</td>
<td>20%</td>
</tr>
<tr>
<td>Short Assignments (sa)</td>
<td>10%</td>
</tr>
<tr>
<td>Individual Project (ip)</td>
<td>20%</td>
</tr>
<tr>
<td>Exams</td>
<td>50%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100.00%</strong></td>
</tr>
</tbody>
</table>

Grades will be assigned as follows:

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

**Notes:**
- A student **will not receive a passing final grade until all assigned work (including sas, pas and group project) have been submitted**, even if the late penalty reduces the points possible to zero. All late work must be turned in by 5 p.m. Friday before the last week of classes (that's the last week classes are held, NOT exam week). Why do I require this? These elements are critical to helping you build a set of skills you'll continue to use throughout this course.
- 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.

**Short Assignments (sa) and Programming Assignments (pa):** The key to becoming a great programmer is to start programming from day one. As such, you will be asked to do a number of programming assignments. These will allow you to apply all the concepts covered in class. These assignments have two objectives:
1. Give you a current indicator of your understanding of the material. Be sure to ask questions and/or get help immediately if you don't understand the homework or its solution, as catching up is very difficult.
2. Give me an indicator of where the class is doing as a whole, and help me keep an adequate pace.

**Individual Project:** An individual project will be assigned. You must submit progress reports that will allow me to give you feedback and measure your progress on the project. The objective of the project is to apply the skills you will learn in the class to develop a data-driven web-based application (e.g. e-commerce site, forum, etc.).

**Exams:** Classroom exams will carry most of the weight of your final grade. **They will be computer based (programming)** and a significant number of the questions will come from in-class lectures and programming assignments. Format of the exams will vary and might include open/closed book options.
General Policies

Attendance
Students are expected to attend class. Attendance is not required but highly recommended. 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. However, attendance will be required during the group presentations.

Communication
We will be using CANVAS extensively. All the material associated with the course will be available through CANVAS. This LMS offers many ways of communication and I will be using two:

- Email: please use the CANVAS email system to communicate with your instructor for personal issues related to the course. Make sure to use proper netiquette when sending emails, including but not limited to:
  - 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 content on Canvas. 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.
  - You can expect a reply from me within 24 hours.
- The Discussions section of CANVAS is an extension of my office hours. You are to post all technical questions here. I will not answer questions about labs and/or projects in private emails. 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: How do I implement an interface in a class hierarchy?”

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. You can expect a reply from me within 24 hours.

Late Work Policy

- No late submissions for short assignments (sas) or the individual project (ip) will be allowed.
- Programming assignments may be turned in late, but they lose a percentage of their graded point values each class period that they are late according to schedule shown below (weekday = Monday through Friday):

<table>
<thead>
<tr>
<th>Late Submission Period</th>
<th>Penalty</th>
</tr>
</thead>
<tbody>
<tr>
<td>On time</td>
<td>0%</td>
</tr>
<tr>
<td>Up to 1 weekday late</td>
<td>10%</td>
</tr>
<tr>
<td>Up to 2 weekdays late</td>
<td>30%</td>
</tr>
<tr>
<td>Up to 3 weekdays late</td>
<td>60%</td>
</tr>
<tr>
<td>More than 3 weekdays late</td>
<td>100%</td>
</tr>
</tbody>
</table>

- Makeup Exams will be given only under extraordinary circumstances and the student must submit a legitimate excuse. Examples of legitimate excuses:
If it is ...                                    You have to bring a...
Due to illness:                                note from doctor
Due to business:                               note from supervisor
Death in family:                               note from family member and obituary
Other                                           on a case-by-case basis

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.

Short Assignments (sa) and Programming Assignments (pa) Submission Process
• Submit your assignment by uploading all files (normally you will be turning in a zipped file that contains the entire project) to Canvas.
• For Programming Assignments (pa), besides the program(s), you must also include:
  o An executive summary describing the approach you followed to solve it the assignment.
  o Run-time form image(s) at crucial points if necessary. Use the Alt + Print-Screen and Paste methods to paste the form image into your Word Processor document.
• Keep a copy of your files. You may need it for your future assignments.

Grading the Assignments:
Your instructor will test your work (weight distribution: documentation - 10% program - 90%). To get full grade, your program should provide correct answer. However, points will be deducted for the following:
• Incomplete submission.
• Poorly documented program: no comments in all the sections of your program. Lack of proper indenting and spacing in the code.
• NOTE: You must make sure you are uploading all the proper files for me to grade the assignments. If you fail to upload all the necessary files, you will be penalized and might not get full credit.

Add/Drop Policy
Students may add courses thru August 22, 2014 and drop/cancel courses thru October 21, 2014 through MyNMSU self-service, or by using the add/drop slip (no signature required). Late registration fees will apply for courses added after August 22, 2014. The deadline for withdrawing from a full semester (15 week) course in the fall is October 21, 2014. Students may withdraw from the university (withdraw from all classes) until November 14, 2014.

Incompletes
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). 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 and non-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://deanofstudents.nmsu.edu/student-handbook/) for a full description of the NMSU Policy.

Plagiarism. Plagiarism is using another person's work without acknowledgment, making it appear to be one's own. Intentional and unintentional instances of plagiarism are considered instances of academic misconduct and are subject to disciplinary action such as failure on the assignment, failure of the course or dismissal from the university. The NMSU Library has more information and help on how to avoid plagiarism at http://lib.nmsu.edu/plagiarism/.

Because of the nature of this class, discussion of principles and approaches to solve a particular problem between class members is encouraged.

Students with Disabilities
Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) covers issues relating to disability and accommodations. If you have questions or need an accommodation in the classroom (all medical information is treated confidentially), contact:

Trudy Luken, Student Accessibility Services (SAS) – Corbett Center, Room 244
Phone: (575) 646-6840
Email: sas@nmsu.edu / Website: www.sas.nmsu.edu

NMSU policy prohibits discrimination on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex, sexual orientation, spousal affiliation and protected veterans status. Furthermore, Title IX prohibits sex discrimination to include sexual misconduct, sexual violence, sexual harassment and retaliation. For more information on discrimination issues, Title IX or NMSU’s complaint process contact:

Gerard Nevarez, Title IX Coordinator
Agustin Diaz, Title IX Deputy Coordinator
Office of Institutional Equity (OIE) – O’Loughlin House, 1130 University Avenue
Phone: (575) 646-3635 Email: equity@nmsu.edu / Website: www.nmsu.edu/~eco

Professional Behavior Guidelines
Tardiness: Please arrive on time. If you arrive late, 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.**

**Note to bcis 585 Students**

Students that have enrolled in the bcis 585 (or any other 5XX number) course will be provided with additional opportunities to demonstrate their interest and expertise in the subject material for this course. The specific details will be provided to those students during the course. These opportunities will be undertaken with all the rigor and enthusiasm they deserve and that should be demonstrated by graduate students.

**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.**
- No food or drinks allowed in the lab.