This page contains the syllabus for Senior CIS Project for Spring 2020. "The course syllabus contains important information regarding course requirements and the grading system utilized. It is the responsibility of the students to read the syllabus and consult the instructor if they have questions."(from UNC Undergraduate Catalog)

Course: BACS 488 005 - Senior CIS Project, Spring 2020 – 3 credits

Class meeting time and location: Mondays, Wednesdays, and Fridays 11:15am – 12:05pm in Kepner Hall 0075

Instructor: Mehrgan Mostowfi, Ph.D. (mer-gone mos-tow-fee)

Department: Accounting and CIS, Monfort College of Business

Office location: Kepner Hall 0095C

Office hours:
- Mondays, Wednesdays, and Fridays 2:20pm – 4:00pm in Kepner Hall 0095C
- By appointment (email to schedule an appointment)

Email: mehrgan.mostowfi@unco.edu

Catalog course description: This is an activity course in which students learn and apply software engineering standards and patterns to design, implement, and test software systems.

Required textbook: There is no required textbook for this class. Reading assignments will be assigned from various textbooks and online resources, and will be made available on Canvas.

Prerequisites:
- BACS 387 or CS 350, and BACS 487
- Business majors/minors and Software Engineering majors only.
- Seniors or above.

Course Objectives:
1. To apply software engineering principles in the analysis, design, implementation, and testing of software systems.
2. To plan and manage project deliverables with agile software management tools.
3. To learn and apply advanced architectural, design, and programming concepts.

MCB Assurance of Learning Goals and Objectives:

<table>
<thead>
<tr>
<th>Learning Goal</th>
<th>Learning Objective</th>
<th>Course Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Be knowledgeable of key concepts in core business curriculum</td>
<td>Students will demonstrate a firm understanding of core business concepts.</td>
<td>Objectives 1, 2, 3</td>
</tr>
<tr>
<td>Be effective communicators</td>
<td>Students will prepare and deliver quality presentations on a business topic.</td>
<td>Objective 3</td>
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<td></td>
<td>Students will prepare quality business documents.</td>
<td>Objective 2, 3</td>
</tr>
<tr>
<td>Demonstrate conceptual and analytical skills</td>
<td>Students will analyze data &amp; information to identify key problems, generate and evaluate appropriate alternatives, and propose a feasible alternative.</td>
<td>Objective 1, 2</td>
</tr>
<tr>
<td>Be proficient with technology</td>
<td>Students will demonstrate proficiency in common business software packages.</td>
<td>Objectives 1, 2, 3</td>
</tr>
</tbody>
</table>
Demonstrate ethical awareness
Students will be knowledgeable about ethics and social responsibility.

Objectives
1, 2

Students will identify the ethical issue or problem, analyze the consequences for various stakeholders, and develop an acceptable resolution.

Objectives
1, 2

Be proficient with discipline-specific knowledge
Students will demonstrate a firm understanding of discipline-specific knowledge within their emphasis.

Objectives
1, 2

Students will demonstrate competency with advanced topics within their emphasis.

Objectives
1, 2

Course topics: This course will cover the following topics:

- Week 1 (January 13 – January 19): Parkinson’s Law, Project planning and Scheduling
- Week 2 (January 20 – January 26): Project planning and Scheduling, COCOMO
- Week 4 (February 3 – February 9): Brooks: No Silver Bullet and No Silver Bullet Refired
- Week 5 (February 10 – February 16): Test-Driven Development and Refactoring
- Week 6 (February 17 – February 23): Test-Driven Development and Refactoring
- Week 7 (February 24 – March 1): Software Testing
- Week 8 (March 2 – March 9): Software Testing
- Week 9 (March 10 – March 13): Software Testing, Mid-Term Exam
- Week 10 (March 16 – March 23): No class, Spring Break
- Week 11 (March 23 – March 29): Advanced architectural concepts: socket programming
- Week 12 (March 30 – April 7): Advanced architectural concepts: multithreading
- Week 13 (April 6 – April 12): Project development
- Week 14 (April 13 – April 19): Project development
- Week 15 (April 20 – April 26): Project development
- Week 16 (April 27 – May 3): Project development
- Week 17 (May 4 – May 10): No class, Final Exam and Project Report Submission

Grading: Students will earn a grade based on exams, assignment, and a project. The grade breakdown is:

- Assignments: 15% (will mostly cover project implementation and testing)
- Class Assignments: 12%
- Mid-term Exam: 23% (the exact date will be announced)
- Comprehensive final exam: 30% (held in class on Monday, May 4, 8:00am – 10:30am)
- Final Project: 35% (Reports due Sunday, May 10 at 11:59pm)

The grading scale is "no worse than":

- A = 90.00% through 100% and above
- B = 80.00% through 89.99%
- C = 70.00% through 79.99%
- D = 60.00% through 69.99%
- F = Less than 59.99%

Other Important Dates:

- Add Deadline on URSA: 01/17/2020
- Drop Deadline on URSA: 01/27/2020
- Course Withdrawal Deadline: 03/09/2020
Course Policies:

- I expect you to make sure your UNCO email works and check your email regularly. Email will be the main means of communication between you and me. Not having checked your email will not be accepted as an excuse for missing due dates and other important information.
- If you must submit work late you need to talk to me at least one week before the due date in question. Otherwise, late work cannot be accepted except in cases of verifiable emergencies.
- Attending class is mandatory and very important. I may choose to track attendance.
- Incomplete (“I”) grades will only be given in the case of severe hardship including verifiable medical emergencies or legal troubles. Simply being “overloaded” and unable to complete your work is not grounds for an “I” grade.


- Assessment Statement
- Classroom Technology Guidelines
- Computer Utilization
- Ethical Dimension Coverage
- Food and Beverage Guideline
- Global Dimension Coverage
- Library Utilization
- MCB Statement
- Monfort College of Business Student Code of Professional Conduct
- Students with Disabilities

Networking Night – 02/19/2020 | 5:30PM—7:00PM | Kepner Hall – Networking Night’s focus is bringing together business students and business professionals from various industries to help build students’ soft skills and learn about different organizations and available career paths. **Sophomore and Junior Business Administration students are required to attend Networking Night, occurring Wednesday, February 19, 2020, from 5:30PM—7:00PM in Kepner Hall.** All business students are encouraged to attend in order to broaden their professional network.

If an irresolvable conflict or emergency prevents a student from attending Networking Night, that student should contact Melissa Hoffman (melissa.hoffman@unco.edu) | (970) 351-4589) for an alternative assignment. For questions or additional details about Networking Night, please see the Networking Night website (www.mcb.unco.edu/students/networking-night) or contact Melissa Hoffman (melissa.hoffman@unco.edu) | (970) 351-4589).

Spring Job & Internship Fair – 02/20/2020 | 1:00PM—4:00PM | University Center – Center for Career Readiness hosts a campus-wide Job & Internship Fair each semester, connecting soon-to-be graduates with employment opportunities. **Senior Business Administration students are required to attend the spring fair, occurring Thursday, February 20, 2020, from 1:00PM—4:00PM in the University Center.** All business students are encouraged to attend, especially those seeking internship opportunities. Business Administration students should check-in once at the fair in order to record their attendance.

If an irresolvable conflict or emergency prevents a student from attending the fair, that student should contact Melissa Hoffman (melissa.hoffman@unco.edu) | (970) 351-4589) for an alternative assignment. For questions or additional details about the Job & Internship Fair, please contact Center for Career Readiness (www.unco.edu/careers | (970) 351-2127).

Last Update: January 7, 2020

Every part of this syllabus is subject to adjustment as the semester progresses.