**Syllabus**

Systems Analysis and Design Course (BACS 487) – Fall 2019

This page contains the syllabus for Systems Analysis and Design for Fall 2019. “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 487 029: Systems Analysis and Design, Fall 2019 – 3 credits

Class meeting time and location: Tuesday and Thursday, 3:30pm – 4:45pm in Kepner Hall 0075

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

Department: Accounting and CIS, Monfort College of Business

Email: mehrgan.mostowfi@unco.edu

Homepage: [http://mcb.unco.edu/departments/computer-information-systems/mostowfi-mehrgan.aspx](http://mcb.unco.edu/departments/computer-information-systems/mostowfi-mehrgan.aspx)

Office location: Kepner Hall 0095C

Office hours: See below, and the next page for a complete list of office hours by week:

- Every week on Tuesday and Thursday, 9:30am to 11:00am
- Every other week on Monday, 1:30pm to 3:30pm starting Monday, September 2, 2019
- Every other week on Wednesday, 1:00pm to 3:00pm starting Wednesday, August 28, 2019
- By appointment

Catalog course description: An activity course that covers systems analysis and design; emphasizes techniques, tools, skills, procedures and end products. Covers investigation, analysis/design.

Required textbook: The required textbook is *Mythical Man-Month, The Essays on Software Engineering, 2/E*, by Frederick P. Brooks, Jr. Additional readings will be assigned in the form of parts of other textbooks, articles and online pages.

Prerequisites:

- BACS 287 and BACS 300.
- CIS emphasis students, CIS minors, and Software Engineering majors only.
- Juniors or above.

Course Objectives:

1. To develop and apply the concepts, techniques, and tools used in the analysis, design and implementation of information systems.
2. To develop the project management skills to control the development and use of an information system.
3. To develop the communication skills for presenting an information system.
4. To develop understanding of a variety of methodologies employed in business and industry.

MCB Assurance of Learning Goals and Objectives:

<table>
<thead>
<tr>
<th>Learning Goal</th>
<th>Learning Objective</th>
<th>Course Coverage</th>
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</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 2,3, and 4</td>
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<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>Students will prepare quality business documents.</td>
<td>Objective 3</td>
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<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</td>
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<tr>
<td>Be proficient with technology</td>
<td>Students will demonstrate proficiency in common business software packages.</td>
<td>Objectives 2, 3, and 4</td>
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<tr>
<td>Demonstrate ethical awareness</td>
<td>Students will be knowledgeable about ethics and social responsibility.</td>
<td>Objectives 1 and 2</td>
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<td>Students will identify the ethical issue or problem, analyze the consequences for various stakeholders, and develop an acceptable resolution.</td>
<td>Objectives 1 and 2</td>
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<td>Be proficient with discipline-specific knowledge</td>
<td>Students will demonstrate a firm understanding of discipline-specific knowledge within their emphasis.</td>
<td>Objectives 1 and 4</td>
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<tr>
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<td>Students will demonstrate competency with advanced topics within their emphasis.</td>
<td>Objectives 1, 2, and 3</td>
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**Course Schedule and Office Hours:** This course will cover the following topics:

- **Week 1 (August 26 – September 1):** Information Systems Building Blocks  
  - Office hours: Tuesday – 9:30am to 11am, Wednesday – 1:00pm to 3:00pm, Thursday – 9:30am to 11am.
- **Week 2 (September 2 – September 8):** Information Systems Building Blocks  
  - Office hours: Monday – 1:30pm to 3:30pm, Tuesday – 9:30am to 11am, Thursday – 9:30am to 11am.
- **Week 3 (September 9 – September 15):** Managing Systems Projects  
  - Office hours: Tuesday – 9:30am to 11am, Wednesday – 1:00pm to 3:00pm, Thursday – 9:30am to 11am.
- **Week 4 (September 16 – September 22):** Requirements Engineering,  
  - Office hours: Monday – 1:30pm to 3:30pm, Tuesday – 9:30am to 11am, Thursday – 9:30am to 11am.
- **Week 5 (September 23 – September 29):** Requirements Engineering, Exam 1, Initial Project Meetings  
  - Office hours: Tuesday – 9:30am to 11am, Wednesday – 1:00pm to 3:00pm, Thursday – 9:30am to 11am.
- **Week 6 (September 30 – October 6):** Requirements Engineering  
  - Office hours: Monday – 1:30pm to 3:30pm, Tuesday – 9:30am to 11am, Thursday – 9:30am to 11am.
- **Week 7 (October 7 – October 13):** System Modeling – Context Diagrams and System Overview Diagrams  
  - Office hours: Tuesday – 9:30am to 11am, Wednesday – 1:00pm to 3:00pm, Thursday – 9:30am to 11am.
- **Week 8 (October 14 – October 20):** System Modeling – Entity Relationship Diagrams  
  - Office hours: Monday – 1:30pm to 3:30pm, Tuesday – 9:30am to 11am, Thursday – 9:30am to 11am.
- **Week 9 (October 21 – October 27):** System Modeling – Use Case Analysis  
  - Office hours: Tuesday – 9:30am to 11am, Wednesday – 1:00pm to 3:00pm, Thursday – 9:30am to 11am.
- **Week 10 (October 28 – November 3):** System Modeling – Data Flow Modeling  
  - Office hours: Monday – 1:30pm to 3:30pm, Tuesday – 9:30am to 11am, Thursday – 9:30am to 11am.
- **Week 11 (November 4 – November 10):** Architectural Design  
  - Office hours: Tuesday – 9:30am to 11am, Wednesday – 1:00pm to 3:00pm, Thursday – 9:30am to 11am.
- **Week 12 (November 11 – November 17):** Database Design, Exam 2  
  - Office hours: Monday – 1:30pm to 3:30pm, Tuesday – 9:30am to 11am, Thursday – 9:30am to 11am.
- **Week 13 (November 18 – November 24):** Network Media, Topologies, Switched LANs  
  - Office hours: Tuesday – 9:30am to 11am, Wednesday – 1:00pm to 3:00pm, Thursday – 9:30am to 11am.
- **Week 14 (November 25 – December 1):** Project Scheduling (No class on Thursday – Thanksgiving)  
  - Office hours: Monday – 1:30pm to 3:30pm, Tuesday – 9:30am to 11am, Thursday – 9:30am to 11am.
- **Week 15 (December 2 – December 8):** Project Scheduling  
  - Office hours: Tuesday – 9:30am to 11am, Wednesday – 1:00pm to 3:00pm, Thursday – 9:30am to 11am.
- **Week 16 (December 9 – December 15):** No class, comprehensive final exam
Grading: Students will earn a grade based on quizzes, exams, participation in classes and labs, and a comprehensive final exam. The grade breakdown is:

- Assignments: 15% (will mostly cover project documentation)
- Exam 1: 15% (the exact date will be announced)
- Exam 2: 15% (the exact date will be announced)
- Comprehensive final exam: 25% (held in class on Thursday, December 12, 1:30pm – 4:45pm)
- Final Project: 30% (Reports due Sunday, December 15 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%

Important Dates:

- Add Deadline on URSA: Friday, August 30, 2019
- Drop Deadline on URSA: Monday, September 9, 2019
- Course Withdrawal Deadline: Thursday, October 17, 2019

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

Last Update: July 2, 2019

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