

BEMIDJI STATE UNIVERSITY

COLLEGE OF BUSINESS, TECHNOLOGY AND COMMUNICATION

Course Outline

Spring-2010

COURSE: **Advanced Structured Application Development - (BUAD 3382-01)**

COURSE CREDIT: 3.0 Credit Hours

INSTRUCTOR: **Mehdi S. Tehrani (PhD)**

OFFICE LOCATION: Decker Hall- Room 25

OFFICE HOURS: M,W,F, 10-12:00 noon, 1:00PM-2:00PM, T, TH, 13:00-4:00pm

PHONE NUMBER: 218-755-2751 (Office)-1800-475-2001-ext-2751

FAX: 701-755-4100

E-mail: mtehrani@bemidjistate.edu

ADDRESS: 1500 Birchmount Drive, NE, Bemidji, MN 56601.

CLASS LOCATION: DH116/19A

CLASS SCHEDULE: MWF, 12:00noon-12:50 pm

FIRST DAY OF CLASS: **Monday January 11th, 2010**

LAST DAY OF CLASS: **Wednesday Apr 28th 2010**

PREREQUISITE: BUAD 2381

REQUIRED TEXTBOOK:

Title	-	COBOL for the 21st Century
Author	-	N. Stern, R.A. Stern
Year	-	11 th edition, 2006
Publisher	-	J. Wiley
ISBN	-	0-471-72261-8 (with no software) 0-470-18151-6 with Compiler

<http://www.wiley.com/WileyCDA/WileyTitle/productCd-0471722618.html>

EXTERA READING:

1. Mastering COBOL, By, Carol Baroudi, Sybex, 1999.
2. Sams Teach Yourself COBOL in 24 Hours, By T.Hubbell, Sams, 1999.
3. Murach's Structured COBOL by, M. Murach et al., Mik Murach & Associates, 1999.

COURSE OBJECTIVES:

Advanced business systems computer programming with emphasis on the highly structured design techniques used by industry. Interactive concepts are integrated within table processing, file processing, and Web E-Commerce processing using Micro Focus, Net Express, or other similar tool. Projects are PC, minicomputer, and mainframe computer compatible.

LEARNING OBJECTIVE OUTCOMES:

After completing this course the students are able to do following:

- Would be able to use Micro Focus NetExpress Version 5.00
- Would be able to use COBOL Compiler
- Would be able to develop both Batch and Interactive Applications
- Would be able to develop business application using COBOL programming language
- Would be able to develop business application using more advanced COBOL programming language
- Would be able analyze and solve business problems

Learning outcomes	Measures
Programming concepts	Reading chapters, take quizzes, and Hands-on experience, Discussion, Final exam
Using compiler	Doing projects, and Hands-on experience,
analyze and solve business problems	Read chapters, do projects, discussion
develop both Batch and Interactive Applications	Hands on experiences, projects

COURSE DESCRIPTION:**UNIT II:**

- Chapter 7 Computing in COBOL, The Arithmetic verbs and functions
 Chapter 8 Decision Making Using the IF and EVALUATE Statements
 IF Statement, Conditional Statement, Evaluate Statement
 Chapter 9 Iteration: Beyond the Basic PERFORM
 PERFORM Statement,

UNIT III:

- Chapter 10 Control Break Processing
Reports, Control
- Chapter 11 Data Validation
Validation, Techniques
- Chapter 12 Array Processing and Table Handling
OCCURS Clauses, Search

UNIT IV:

- Chapter 13 Sequential File Processing
Master File, Rewrite Statement
- Chapter 14 Sorting and Merging
Sorting, Merging
- Chapter 15 Indexed and Relative File Processing
File Organization

UNIT V:

- Chapter 16 Improving Program Productivity Using the COPY, CALL, and Other
Statements Copy Statement, Call Statement
- Chapter 17 The Report Writer Module
Report Module
- Chapter 18 An Introduction to Object-Oriented Programming
OO COBOL, Class

LECTURE SCHEDULE:

- Chapters 8,9** Weeks 1,2 ,
- Project & quiz #1** Project date will be announced after completing chapter 9.
- Chapter 10** Weeks 2, 3
- Project & quiz #2** Project date will be announced after completing chapter 10.
- Chapter 11** Weeks 4, 5, 6
- Project & quiz #3** Project date will be announced after completing chapter 11.
- Chapter 12** Week 7,
- Project & quiz #4** Project date will be announced after completing chapter 12.
- Chapter 13** Weeks 8,9
- Project & quiz #5** Project date will be announced after completing chapter 13.
- Chapter 14** Week 10
- Project & quiz #6** Quiz date will be announced after completing chapter 14.
- Chapter 15** Week 11
- Project & quiz #7** Project date will be announced after completing chapter 15.
- Chapter 16** Week 12,13
- Project & quiz #8** Project date will be announced after completing chapter 16.
- Chapter 17** Weeks 14, 15
- Project & quiz #9** Project date will be announced after completing chapter 17.
- Chapter 18** Week 16
- Project & quiz #11** Project date will be announced after completing chapter 18.

Final Exam **Wednesday May 5th 2010, 10:30 am-12:30pm**

GRADING POLICY:

<u>Total Points</u>	<u>100%</u>
Projects	50%
Quizzes	10%
Final Exam	35%
Discussion	5%
<u>Range</u>	<u>Grade</u>
90+ %	A
80+ %	B
70+ %	C
60+ %	D
<60 %	F

Sample grading system:

Sample -

	50%					10%					35%	5%	100%		
Name	PRJ-1	P-2	P-3	P-4	p-5	Ave	q-1	q-2	q-3	q-4	q-5	Ave	F-E	Dis	T-G
	45	45	50	50	50	48	10	8	10	8	10	9.2	30	5	92.2
	40	40	40	40	40	40	10	5	8	7	10	8	22	5	75

QUIZZES AND EXAMS MATERIAL:

Questions in the quizzes are in MC/TF format and are based on textbook. After covering each chapter, you will be given a quiz comprised of about 20 questions. The majority of questions in the final exams (F-E) are from the quizzes that you have taken.

FORMAT OF PROJECTS FOR SUBMISSION:

- Cover page: Name, Project #, chapter #, Project title
- Source codes
- Data files /Input files (copy)
- All the above as hard copies before deadline

LATE PENALTIES:

1. Late written or software assignments will not be accepted.
2. THERE WILL BE NO MAKEUP QUIZZES OR FINAL EXAMINATION.

ATTENDANCE:

1. Students will attend class regularly. If attendance is impossible, obtain class notes from a fellow student, and then study them for understanding.
2. To get an excuse from class students must inform **at least three working days in advance**, unless it is impossible to do so.
3. Only **15%** absences are allowed which include both excused and unexcused.

ACADEMIC HONESTY:

Cheating on the work for this class will not be tolerated and will result in a failing final grade. The college experience is founded on the concepts of honesty and integrity. Dishonesty, cheating, plagiarism, or knowingly furnishing false information to the college is regarded as particularly serious offenses. Cases of dishonesty will be handled by levying certain penalties. Cheating on the work for this class will not be tolerated and will result in a failing final grade. However, in flagrant cases, the penalty may be dismissal from the college after proper due process proceedings.

DISCRIMINATION:

Bemidji State University does not discriminate on the basis of sex, religion, creed, national origin, race, age, disability, or any other basis prohibited by law. If you believe you have been discriminated against unlawfully, please bring this matter to the attention of your instructor or the BSU's Human Resource Office.

SPECIAL ACCOMMODATIONS:

In coordination with the Disability Support Service, reasonable accommodations will be provided for qualified students with disabilities (LD, Orthopedic, Hearing, Visual, Speech, Psychological, ADD / ADHD, Health Related & Other). Please meet with the instructor during the first week of class to make arrangements. Accommodations and alternative format print materials (large print, audio, disk or Braille) are available through the Disability Support Service, located in Office for Students with Disabilities Sanford Hall (218-755-3883).

GOOD LUCK!