

BEMIDJI STATE UNIVERSITY

COLLEGE OF BUSINESS, TECHNOLOGY AND COMMUNICATION

Course Outline

Fall 2012

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

COURSE CREDIT: 3.0 Credit Hours

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

OFFICE LOCATION: Decker Hall- Room 25

OFFICE HOURS: M,W,F, , 9.40-10am,12-13:00, 3.00:00PM-5.00:00PM

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

FAX: 218-755-4100

E-mail: mtehrani@bemidjistate.edu

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

CLASS LOCATION: DH19A

CLASS SCHEDULE: MWF, 13:00noon-13:50 pm

FIRST DAY OF CLASS: **Monday Aug 27th 2012**

LAST DAY OF CLASS: **Monday December 10th 2012**

PREREQUISITE: BUAD 2280 / CS1141

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:

Develop highly structured business application computer programs to solve managerial and organizational problems. Topics include file processing, conditionals, data manipulation, reporting, and control break processing. Projects are PC, minicomputer, and mainframe computer compatible. Theory and application of the COBOL programming language is taught as used in commercial installations. Students prepare programs from applications commonly encountered in business and industry.

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 (DSLO#2,3)
- Would be able to use COBOL Compiler (DSLO#2,3)
- Would be able to develop both Batch and Interactive Applications (DSLO#4)
- Would be able to develop business application using COBOL programming language (DSLO#2)
- Would be able analyze and solve business problems (DSLO#5)

DSLO = Department Student Learning Outcomes

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 I: The Basics**

- | | |
|-----------|---|
| Chapter 1 | An Introduction to Structured Programming Design in COBOL, History of COBOL, An overview of four Divisions |
| Chapter 2 | The IDENTIFICATION and ENVIRONMENT DIVISION
The basic of structure of COBOL program, General Rules |
| Chapter 3 | The DATA DIVISION
The way data is organized, The rules for data-names and constant, How data storage can be reserved |
| Chapter 4 | Coding Complete COBOL Programs: The PROCEDURE DIVISION |

UNIT II: Designing Structured Programs

Chapter 5	Designing and Debugging Batch and Interactive COBOL Programs How structured programs should be designed, Pseudocode and Flowcharts, Hierarchy Charts, The logic Control structure,
Chapter 6	Moving Data, Printing Information, and Displaying Output Interactively Validation, Techniques, The various options of MOVE, The rules fro MOVE, How to print decimal points.
Chapter 7	Computing in COBOL: The Arithmetic Verbs and Intrinsic Functions, The formats and options with Arithmetic verb.
Chapter 8	Decision Making Using the IF and Evaluate Statements Selection Using IF Statement and Other options
Chapter 9	Iteration: Beyond the Basic PERFORM Simple PERFORM Statement and Other types

LECTURE SCHEDULE:**Tentative Schedule**

Date	Topic
Week 1 8/27 8/29,31	Review the Syllabus & sign onto D2L Course Web Site Lecturing chapter-1
Week 2 9/3 9/5, 9/7	Lecturing Chapter-1 Assign projects, quiz, do projects in CIS Lab
Week 3 9/10 9/12, 14	Lecturing Chapter-2
Week 4 9/17 9/19, 21	Lecturing Chapter-2 Assign projects, quiz, do projects in CIS Lab
Week 5 9/24 9/26, 28	Lecturing Chapter-3 Lecturing Chapter-3
Week 6 10/1 10/3,5	Lecturing Chapter-3 Assign projects, quiz, do projects in CIS Lab Exam-1, (up to end of chapter-3)

Date	Topic
Week 7 10/8 10/10,12	Lecturing Chapter-4
Week 8 10/15 10/17,19	Lecturing Chapter-4 Assign projects, quiz, do projects in CIS Lab
Week 9 10/22 10/24,26	Lecturing Chapter-5,
Week 10 10/29 10/31, 11/2	Lecturing Chapter-5, Assign projects, quiz, do projects in CIS Lab
Week 11 11/5 11/7,9	Lecturing Chapter-6,
Week 12 11/12 11/14,16	Lecturing Chapter-6, Assign projects, quiz, do projects in CIS Lab
Week 13 11/19 11/21,23	Lecturing Chapter-7, Assign projects, quiz, do projects in CIS Lab
Week 14 11/26 11/28,30	Lecturing Chapter-7, Assign projects, quiz, do projects in CIS Lab
Week 15 12/3 12/5, 12/7	Lecturing Chapter-8, Assign projects, quiz, do projects in CIS Lab
Week 16 12/10	Lecturing Chapter-8, Assign projects, quiz, do projects in CIS Lab
Finals Week	Dec 19th , 1:00pm-3:00pm (this can be changed having the exam on D2L) Exam-2, from chapter4-7.

GRADING POLICY:

<u>Total Points</u>	<u>100%</u>
Projects	50%
Quizzes	10%
Final Exam (two exams)	30%
Discussion + Questions	10%
<u>Range</u>	<u>Grade</u>
90+ %	A
80+ %	B
70+ %	C
60+ %	D
<60 %	F

Sample grading system:

Sample -

	50%					10%					30%	10%	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 most of questions (may) in the final exams (F-E) are from the quizzes that you have taken. Exams will have about 30 questions in MC/TF.

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 must be submitted before deadline

Not respecting the above format one loses points.

Rubric for projects (grading):

Factors	Grade	Grade-for content	Obtain Grade
Cover page	1	4	5
Source Codes	10	15	25
Data Files, I/O	10	10	20
Total			50

LATE PENALTIES:

1. Late written or software assignments will not be accepted. Zero grade.
2. THERE WILL BE NO MAKEUP QUIZZES OR EXAMES. Zero grade.

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 **10%** absences are allowed which include both excused and unexcused.

The Department of Business Administration Mission:

Educate students through a learning-centered environment.

To achieve its mission, the Department of Business Administration has adopted the following broad-based, student learning goal:

Graduates will be prepared for entry into careers in business and for contributions to their global and local communities.

In addition, the Department of Business Administration has adopted the following program-level student learning outcomes (*starred outcomes are a focus of this course*):

1. Graduates will attain higher learning in the field of business.
2. **Graduates will demonstrate information literacy.
3. **Graduates will demonstrate ability to use practical business tools.
4. Graduates will demonstrate good communication skills and ability to work effectively as part of a team.
5. Graduates will demonstrate the ability to analyze complex business situations in a realistic business environment.

Academic Integrity Statement (required on all BSU syllabi):

BSU students are expected to practice the highest standards of ethics, honesty and integrity in all of their academic work. Any form of academic dishonesty (e.g., plagiarism, cheating and misrepresentation) may result in disciplinary action. Possible disciplinary actions may include failure for part of all of a course as well as suspension from the University.

Students with Special Needs Statement (required on all BSU syllabi):

Upon request this document can be made available in alternate formats. Please contact the instructor (**your name and phone number**) or Kathi Hagen at Disabilities Services at (218) 755-3883. Please contact the Disability Services Office **ONLY** if you have a need for accommodations in this class. All other contact should be with your instructor.

GOOD LUCK!