Western Michigan University
Haworth College of Business
Business Information Systems

CIS 4990 Enterprise Project

Spring 2013 Monday & Wednesday

BBA Learning Goal #4: Students will understand information technology

BBA Learning Objectives:
  a. Students will have information technology knowledge
  b. Students will apply information technology in business

Faculty Name: Prof. Dr Andrew Targowski
  e-mail Address: Andrew.Targowski@wmich.edu

Office Address: HCoB 3326
Office Hours: M, W: 1:00-2:00 PM
Course Time: M, W: 3:30-4:45
Office Phone: 387-5406
Course Room: HCoB 1140

Course Theme: Integration of subsystems into an enterprise-wide software

Course Description:
This is a capstone course of the CIS curriculum. Applications of computer, programming, and system knowledge and skills gained from the previous classes are applied in developing an enterprise-wide software project. Some industrial enterprise-wide packages are reviewed. A team approach is applied to develop and integrate different computerized business functions into an integrated software system. Project management techniques and computer simulated solutions are formally presented to emphasize team dynamics and management skills.

Prerequisite: BUS 460 Business Data Base Applications and a class on any programming language

Textbook:
Andrew Targowski, Electronic Enterprise, Strategy and Architecture, 2003
Andrew Targowski: BIS 499/BUS 618 SAP Course Pack

Course Objectives for Students:
1. To learn the state of the art knowledge of
   a. Information Engineering
   b. Application Software Engineering
   c. Project Management
2. To provide the student with the knowledge and skills of a:
   a. Application Programmer
   b. System Designer
   c. Software Engineer
   d. Project leader
3. To recognize the value of enterprise-wide IS in today’s competitive business environment and how to manage it (attitude).

Enterprise Project Definition: Enterprise project includes the interactions among subsystems supporting different business functions through a common menu.
Content Integration: The CIS 499 class is about the integration of a modern enterprise’s information subsystems into one software system. A case study project is undertaken by a team and presented to the class.

Project Organization:
A class will analyze, design, and program an Enterprise Performance Management system belonging to the Management Information Systems Federation’s (MISF) for a case company. There will be the following number of teams:

Team I PROJECT MANAGEMENT
a. Coordination of teams work (grades and attendance recording)  
b. SAP R/3 for IDES standards  
c. All project assignments but no. 3  
d. Teams’ ERP reviews coordination  
e. Software validation  
f. Organization of presentations  
g. Final report  
h. Final project presentation leadership

Team II SYSTEM INTEGRATION
a. Technical consulting on projects all teams  
b. Teams’ EPMs integration into a common menu-driven SAP-like solution  
c. All project assignments but no. 4  
d. Software validation  

d. Final project presentation leadership

Team III-X SYSTEMS DEVELOPERS
a. All projects  
b. Final presentation  
c. ERP reviews

Instructor: THE PROJECT ADVISOR

Following SAP R/3 module-applications will be developed:
1. E-Service  
2. Enterprise Controlling  
3. Controlling  
4. Treasury  
5. Financial Accounting  
6. Sales and Distribution  
7. Material Management  
8. Production  
9. Quality Management  
10. Customer Service  
11. Human Resources

Project Objectives:
1. System vs. subsystems integration  
2. Application of rapid prototyping of user friendly software  
3. Simulation of the real system development environment (load and preassure)
# Course Topics and Schedule

<table>
<thead>
<tr>
<th>Session</th>
<th>Topic</th>
<th>Due Time</th>
<th>Chapter</th>
</tr>
</thead>
</table>
| 1 Jan-7-M | a. Class concept  
b. Teams organization | | |
| 2 Jan-9-W | a. Project 1-Introduction to Enterprise-wide Appl.  
b. SYSTEM CONCEPT-LECTURE | Session 4 | LECTURE NOTES |
| 3 Jan 14-M | a.ENTERPRISE-wide SYSTEMS-LECTURE  
b. Team Work on Project 1 | Chapter 4 + | |
| 4 Jan 16-W | a. Handing in Project 1  
b. BUSINESS PROCESS - LECTURE | Chapter 7 | |
| 5 Jan 21-M | a. Project 2: Introduction to Design a Model of a Business Process | Session 12 | |
| 6 Jan 23-W | a. DEVELOPMENT CENTER  
b. Project 2 – Team Work | Chapter 7 | |
| 7 Jan 28-M | a. e-SERVICE SYSTEMS  
b. Exam review  
c. Team Work on Project 2 | LECTURE NOTES | |
| 8 Jan 30-W | a. MIS & EPM (MANAGEMENT DASHBOARD)  
b. Mid-Term Post-Exam (1) Review  
c. Team Work on Project 2 | Chapter 4 | |
| 9 Feb 4-M | **a. Project 2 Student Presentations** | | |
| 10 Feb 6-W | **a. Project 2 Student Presentations** | | |
| 11 Feb 11-M | a. SEMANTIC LADDER | Chapter 4 | |
| 12 Feb 13-W | b. Project 3: Introduction to Management Dashboard | Session 27 | |
| 13 Feb 18-M | **a. Mid-Term Exam (1)** | | |
| 14 Feb 20-W | Computer Lab 1 | By the end of the lab | Computer Lab 2325 |
| 15 Feb 25-M | Computer Lab 2 | By the end of the lab | Computer Lab 2325 |
| 16 Feb 27-W | Computer Lab 3 | By the end of the lab | Computer Lab 2325 |
| Mar 4-8 | SPRING BREAK | | |
| 17 Mar 11-M | a. SAP PROJECT MANAGEMENT  
b. Project 3 – Team Work | LECTURE NOTES | |
| 18 Mar 13-W | a. ASAP IMPLEMENTATION LIFE CYCLE  
b. Project 3 - Team Work | LECTURE NOTES | |
| 19 Mar 18-M | a. MICROSOFT SYSTEM LIFE CYCLE  
b. Project 3 - Team Work | LECTURE NOTES | |
| 20 Mar 20-W | a. Project 3 - Team Work | | |
| 21 Mar 25-M | a. **SUSTAINABLE ENTERPRISE STRATEGY-1**  
a. Project 3 – Team Work | LECTURE NOTES | |
| 22 Mar 27-W | a. Project 3 – Team Work | LECTURE NOTES | |
| 23 Apr 1-M | a. **SUSTAINABLE ENTERPRISE STRATEGY-2**  
b. Project 3 – Team Work | LECTURE NOTES | |
| 24 Apr 3-W | a. THE ENTERPRISE APPROACH | LECTURE NOTES | |
Key Outcomes:
To successfully complete the CIS 499 class, the BBA student should demonstrate the ability to:

1. Apply enterprise-wide IS concepts in business theory and practice.
2. Plan and develop enterprise-wide solutions required in the future workplace.

Lecture
More specifically, after completing the course lectures, students will be able to:

3. Explain the various approaches in developing enterprise-wide IS.
4. Demonstrate how to manage enterprise-wide IS project.
5. Explain how to achieve competitive advantage by developing enterprise-wide IS.
6. Describe the ethical, legal, and social implications of applying enterprise-wide IS.

Projects
After completing the projects, students will be able to:

7. Demonstrate enterprise-wide IS proficiency in selection and application of appropriate project management techniques.
8. Demonstrate essential enterprise-wide IS knowledge that is applied in business decision-making.

Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>95% and above</td>
</tr>
<tr>
<td>BA</td>
<td>89-95</td>
</tr>
<tr>
<td>B</td>
<td>84-88</td>
</tr>
<tr>
<td>C</td>
<td>70-74</td>
</tr>
<tr>
<td>DC</td>
<td>65-69</td>
</tr>
<tr>
<td>D</td>
<td>60-64</td>
</tr>
<tr>
<td>E</td>
<td>below 60%</td>
</tr>
</tbody>
</table>

Grading Policy:

Projects & Labs: 600 points

- Project 1 Enterprise Systems – 100 points
- Project 2 Business Process – 100 points
- Project 3 Dashboard Software – 250 points
- Lab 1 – 50 points
- Lab 2 – 50 points
- Lab 3 – 50 points

All lab projects will be handed by end of the lab sessions

Exams
2 exams each 200 points

Total Points: 1000
Team Firing and Resigning Policy

Although students are expected to participate in their assigned teams, the course does provide a last resort mechanism to quit a team or fire non-performing members. Anyone leaving a team is responsible for finding another team to join in the same class section. If students leaving assigned teams are unable to join other teams, they must complete all designated project activities by themselves, and will be eligible for no more than 80 percent of the maximum points possible for each group project.

Firing
Non-performing group members can be dismissed using the following process:
1. Team creates and signs a group dismissal policy
2. Group provides specific requirements for non-performing members and documents them in writing
4. Group produces a memo notifying non-performer that he/she is off the team and copies instructor.

Resigning
Students believing they are unfairly performing a disproportionate share of project work may resign from a team using the following process:
1. Compose a memo to the team describing specific reasons for dissatisfaction and specific changes desired. Memo must state that resignation will follow if changes are not implemented. Instructor must be copied.
2. Compose resignation memo and resign from team. Copy instructor.

Remember, anyone leaving his or her assigned team must find another team in the same section, or complete all future assignments individually, and be eligible for no more than 80 percent of group project points.

Academic Honesty:
Western Michigan University's Policy on Academic Honesty, stated in the Undergraduate Catalog 1997-1999, page 58, will be enforced fully in this course. Violations of this Policy include cheating, fabrication, falsification, forgery, multiple submission, plagiarism, complicity, and computer misuse, as described in the Catalog. Students found in violation of this Policy will be disciplined, which may include suspension or expulsion from the University. If you have any questions concerning what may constitute academic dishonesty, please consult the catalog or discuss questions with the faculty member in charge of the course.

Attendance Policy:
Given the nature of this course and the value added by attending the class, attendance is mandatory. Students are expected to contribute in the class and have the responsibility, not only for their own learning, but also to contribute to the learning of their fellow students. Students with 4 or more class absences shall lose 1/2 grade from their overall course grade. In the event a student must miss more than 3 classes because of extenuating circumstances such as a lengthy illness, or other reasonable cause, the instructor of the course can make allowances at their discretion.

Late Assignment Policy:
All assignments are due by the end of the class period on the date in the syllabus. Late assignments will be docked 5% of the maximum grade obtainable for that assignment if late up to one week, 10% if over one week late. The course instructor can take into account extenuating circumstances such as illness at their discretion.

Late Exams Policy:
Students are expected to take exams when scheduled. In the event a student misses an exam, they must arrange with the instructor for a make-up. This option is at the discretion of the instructor.
Project Report
Title Page
Table of Contents
Executive Summary
Introduction
Report Main Body
Conclusion
Self-evaluation by each student
  a. What did you learn in this project?
  b. How are you going to apply this project’s skills in your profession?
  c. How are you going to apply this project’s skills in your life?
  d. Other
References
Appendix

Western Michigan University
A. Targowski HcoB – BIS 499
Name………………………………
Name………………………………
Name………………………………
Team………………………………

Project 1

Design An Enterprise System

Objective: To learn skills how to conceptualize a complex business organization system

1. Executive summary………………………………………………………………………………10
2. Introduction………………………………………………………………………………………10
3. Design the “Srombrero” model for a selected company…………………………………10
4. Define a set of business activities (System-1a)………………………………………………10
5. Define limited relationships within the defined set (System-1b)……………………………10
6. Define multiple relationships within the defined (System-2)………………………………10
7. Define subsystems of the defined set (System 3)……………………………………………10
8. Define the cybernetic model of the defined set........................................10
9. Conclusion........................................................................................................5
10. Write self-evaluation.........................................................................................5
11. References.........................................................................................................10
12. Points total.........................................................................................................100
13. Points achieved.................................................................

-------------------------------------------------------------

Western Michigan University
A. Targowski
HcoB – BIS 499

Name........................................
Name........................................
Name........................................
Team........................................

Project 2

Design a Model of a Business Process

Objective: To learn skills how to design a subsystem

To find a system’s structure search http://help.SAP.com FIND and IMG also IDES SAP at command put a transaction code SREFH03

1. Executive summary.................................................................5
2. Introduction.................................................................................30
3. Define a Bill of System Processor (BOSP)....................................30
   a. Information Subsystems
   b. Information Functions
   c. Information Activities
   d. Software Programs
   e. Software Modules

4. Select one activity of a performance control of your team’s business function and design.................................................................40
   a. Performance 4 indicators for each:
      • Business Intelligence
      • Global Intelligence
      • Sustainability Intelligence
   b. Schedule Reports search at SAP IDES IS
   c. Alerts Reports
   d. Files (database) of key data elements
   e. Data (inputs) to the information activity
   f. Requirements for a computerized implementation
Project 3
Design Software For MIS-EPM

Objective: To learn skills how to develop a user friendly application

1. Executive summary.................................................................5
2. Introduction.................................................................................5
3. Define your prototype’s: design methodology and strategy, phase, type, practice and applied tools.................................................................10
4. Software developed in VB for MIS-EPM...........................................70
   • Screens must display easy readings of cognition units identified by
     • Data processing (measurements=actual)
     • Information processing (change)
     • Concept processing (directions)
     • Knowledge processing (awareness tools)
     • Wisdom processing (choice)
   • Screens must display performance indicators in:
     • Normal State
     • Conflict State
     • Success State
     • Failure State
4. Design a documentation for a user..........................................................10
5. Striking appearance...........................................................................120
   • User friendly GUI (SAP-like).....................................................80
   • Average GUI.............................................................................30
   • Unfriendly GUI.........................................................................10
6. Define the evaluation criteria of your project........................................10
7. Write self-evaluation..........................................................................10
8. References..........................................................................................10
9. Points total.........................................................................................250
10. Points achieved.................