RYERSON UNIVERSITY

Ted Rogers School of Information Technology Management
And G. Raymond Chang School of Continuing Education

(C)ITM 605 – <u>Business Process Design</u>

COURSE OUTLINE FOR 2020-2021

1.0 PREREQUISITE(S)

The prerequisite for this course is ITM200 and ITM 500. Students who do not have the prerequisite will be dropped from the course.

2.0 INSTRUCTOR INFORMATION

- Name:

- Office Phone Number:

- E-mail address:

- Faculty/course web site(s): https://my.ryerson.ca

- Office Location & Consultation hours:

  ➤ Your instructor is available for virtual consultation during scheduled consultation hours. Information on the consultation format is provided in the D2L course shell. If you wish to make an appointment, kindly do so via email to ensure the professor is available.

- E-mail Usage & Limits:

Students are expected to monitor and retrieve messages and information sent through D2L and Ryerson email on a frequent and consistent basis. In accordance with the policy on Ryerson student email accounts (Policy 157), Ryerson requires that any electronic communication by students to Ryerson faculty or staff be sent from their official Ryerson email account. Messages from other accounts may be disregarded.

3.0 CALENDAR COURSE DESCRIPTION

This course covers the concepts and applications of the client/server architectural model for web-enabled data centric information systems, including E-Commerce enterprise systems. The course emphasizes the principles and techniques necessary for the appropriate integration of the web-enabled front-end layer of the system with its business logic counterpart and its backend database. The course may include the use of the .NET development framework along with the VB.NET or C# languages and the MS SQL database server.

4.0 COURSE OBJECTIVES AND LEARNING OUTCOMES

Learning outcomes describe what students are expected to have learned or achieved; as a result, they usually describe what students will be capable of doing, or what evidence will be provided to substantiate learning.

The course is an introductory treatment of the fundamental concepts underlying client/server technology. The primary objective of the course is to enable the students to master the nominal skills necessary for the development of a full-fledged web-enabled data management system such as an E-Commerce application. The course is focused on the design, integration and deployment of the various components that make up a web enterprise application. In particular, the course explores the client/server paradigm and its application to the integration of data and business logic within a multi-tier architectural framework for web enterprise information systems.

5.0 TEXTS & OTHER READING MATERIALS

Beginning ASP.NEt for Visual Studio 2015
by William Penberthy
Publisher(s): Wrox
ISBN: 9781119077121
ISBN: 978-1-119-07723-7 (e-Book)

6.0 TEACHING METHODS

In Fall 2020 this course will be taught will be taught remotely in virtual classrooms. Instruction will take place at scheduled hours, following the approach outlined in D2L Brightspace. You will not be required to attend the Ryerson University campus to complete this course.

This course will incorporate the following teaching/learning methods: lectures, labs, and individual course projects. While the lecture is used for the presentation and discussion of the concepts and applicable examples, the lab is dedicated to guidance and tutoring in relation to the design, implementation, integration and deployment of the system under development as part of the course project.

7.0 EVALUATION, ASSESSMENT AND FEEDBACK

The grade for this course is composed of the mark received for each of the following components:

Evaluation Component	Percentage of the Final Grade
Project - 1	15%
Project – 2	15%
Project – 3	20%
Final Exam	50%
Total	**100%**

NOTE: Students must achieve a course grade of at least 50% to pass this course.

❖ At least **20%** of student's grade based on individual work will be returned to students <u>prior</u> to the last date to drop a course in <u>good academic standing</u> .

Citation Format for Essays and Term Papers

All essay assignments, term paper and other written works must adhere with APA citation format. Technical errors (spelling, punctuation, proofing, grammar, format, and citations) and/or inappropriate levels of language or composition will result in marks being deducted. You are encouraged to obtain assistance from the Writing Centre (www.ryerson.ca/writingcentre) for help with your written communications as needed.

You can find APA guidelines and academic referencing from the following online resources:

<u>Student Learning Support > Online Resources > Writing Support Resources</u>
- <u>APA Basic Style Guide</u>

<u>Ryerson Library Citations and Style Guides</u>
- <u>APA Style</u>

8.0 TOPICS – SEQUENCE & SCHEDULE

Session	Topic & Learning Outcomes	Readings	Assignment
1	Introduction to ASP.NET and Visual Studio IDE 1. Build a simple ASP.NET web site	Chapter 1,2	
2	Designing Web Pages with Visual Studio 1. Design web pages 2. Use style sheets	Chapter 3	
3	Programming Your ASP.NET Web Pages 1. Use the basic elements of programming (data types, collections, loops, decisions and basic object oriented programming concepts) to develop ASP.NET web pages	Chapter 4	Assignment 1 requirements provided
4	Introduction to ASP.NET controls 1. Use basic server controls in web pages 2. Explain the operation of the ASP.NET state engine	Chapter 5	

5	Developing consistent looking and easy navigable web sites 1. Use page life cycle, navigation control and programmatic redirection to develop an easily navigable web site with a consistent interface.	Chapter 7,8	
6	Using databases in ASP.NET and Data Binding controls 1. Use a backend SQL database 2. Use data source and data-bound controls to view, modify and insert data through the web site interface	Chapter 9,10	Assignment 2 requirements provided
7	Introduction to LINQ and ADO.NET Entity Framework 1. Gain working knowledge about LINQ and ADO.NET Entity Framework	Chapter 9, 10	
8	User Controls and Validation 1. Make use of user controls and validation in web site design	Chapter 11,12	
9	ASP.NET with AJAX 1. Gain working knowledge about AJAX 2. Create web services	Chapter 13	
10	Advanced use of Web Controls and Securing ASP.NET applications 1. Handle errors occurring in data source controls and gain experience in other advance uses of web controls 2. Add a security layer to a web site	Chapter 15	Assignment 3 requirements provided
11	Personalizing Web Sites, Exception Handling, Debugging, and Tracing in ASP .NET Applications 1. Personalize a web site	Chapter 16,17	

	2. Learn how to programmatically catch and handle exceptions		
12	Deploying ASP.NET Applications 1. Deploy and configure a web site	Chapter 19	
13	Final Exam		

9.0 VARIATIONS WITHIN A COURSE

All sections of a course (Day and CE sections) will follow the same course outline and will use the same course delivery methods, methods of evaluation, and grading schemes. Any deviations will be posted on D2L Brightspace once approved by the course coordinator.

10.0   OTHER COURSE, DEPARTMENTAL, AND UNIVERSITY POLICIES

For more information regarding course management and departmental policies, please consult the Course Outline Appendix which is posted on the Ted Rogers School of Information Technology Management website.

NOTE: Students must adhere to all relevant university policies found in their online course shell in D2L and /or on the following URL: senate-course-outline-policies.

The appendix covers the following topics:

Attendance & Class Participation

Email Account

Request for Academic Consideration

Examinations & Tests

Late Assignments

Standard of Written Work

Academic Grading Policy

Academic Integrity

Student Rights

Important Resources Available at Ryerson

- Academic Accommodation Support: Ryerson University acknowledges that students have diverse learning styles and a variety of academic needs. If you have a diagnosed disability that impacts your academic experience, connect with Academic Accommodation Support (AAS). Visit the AAS website or contact aasadmin@ryerson.ca for more information. Note: All communication with AAS is voluntary and confidential, and will not appear on your transcript.
- The Library provides research workshops and individual assistance. If the University is open, there is a Research Help desk on the second floor of the library, or go to Workshops.

- Student Learning Support offers group-based and individual help with writing, math, study skills, and transition support, as well as resources and checklists to support students as online learners.

- You can submit an Academic Consideration Request when an extenuating circumstance has occurred that has significantly impacted your ability to fulfill an academic requirement.

- Ryerson COVID-19 Information and Updates for Students summarizes the variety of resources available to students during the pandemic.

- Familiarize yourself with the tools you will need to use for remote learning. The Continuity of Learning Guide for students includes guides to completing quizzes or exams in D2L or Respondus, using D2L Brightspace, joining online meetings or lectures, and collaborating with the Google Suite.