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Faculty Availability:	By Appointment
Program Coordinator:	<i>Bernie Monette</i>

COURSE OUTLINE ACADEMIC YEAR 2015/2016

Course Title: XML & Web Services			
Course Code: HTTP 5203 (Formerly HTTP 507)	Schedule Type Code: LES	Credit Value: 3	Class Hours: 4
Programs: Web Development		Pre-Requisite(s): HTTP 5101, HTTP 5102, 5103, and 5105	Co-requisite(s): N/A
Pre-requisite for: HTTP 5202, 5303, 5304, and 5305			
Restrictions: N/A			

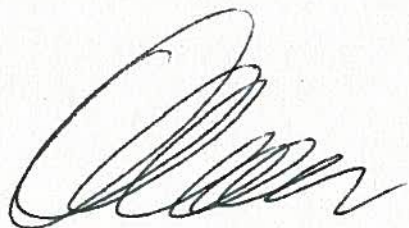
Program outcomes emphasized in this course:

Design and develop web services for a website using software programs.

Design a full featured functioning commercial website using software programs, including a defined information architecture that is supported by navigation, layout, text and graphics.

Approved By Associate Dean:

Signature:



Robert Richardson

Date: Dec. 18, 2015

Course Description

This course is an introduction to XML and web services. Students will learn the extensible markup language (XML), including how to write documents, validate documents, and parse and manipulate documents.

Course Rationale

Students will also develop and consume web services to enable application integration within different platforms. Techniques for securing web services will be presented as well as design patterns for Web services.

Learning Outcomes

Upon successful completion of this course, students will be able to:

- Write "well-formed" XML documents with styles generated from CSS or XSLT files.
- Validate XML documents using Document Type Definitions (DTD) or SCHEMA.
- Transform XML documents with XSLT.
- Pass data between pages.
- Write code using XPath for locating specific XML data.
- Create Really Simple Syndication (RSS) feeds.
- Select, Insert, Update or Delete from XML DOM.
- Parse and read XML with JavaScript
- Explain how Web services solve problems encountered with traditional approaches to designing distributed applications.
- Describe the architecture of a web services-based solution.
- Describe the underlying technologies of Web services and explain how to use PHP to implement them.
- Implement a Web service consumer
- Implement a simple Web Service.
- Publish and deploy a Web service.
- Implement caching in a Web service
- Secure a web service
- Parse, alter and create XML documents with PHP, using SimpleXML and PHP DOM

Essential Employability Skills

Essential Employability Skills are transferable skills that provide the foundation for a student's academic, vocational, and personal success.

	<i>Communication</i>	<i>X</i>	<i>Critical Thinking & Problem Solving</i>		<i>Interpersonal</i>
	<i>Numeracy</i>	<i>X</i>	<i>Information Management</i>		<i>Personal</i>

Learning Resources

Required Resources:

Fawcett, Ayers and Quin Beginning XML, 5th Edition Wrox ISBN-10: 1118162137
ISBN-13: 978-1118162132

Supplemental Resources:

As supplied by the professor.

Copyright

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See the Humber Libraries website (<http://library.humber.ca>) for additional information regarding copyright and for details on allowable limits.

Learning Delivery Format

Lab, Classroom

Course Content

UNIT	TOPIC(S)	ASSESSMENTS	RESOURCES
Introduction	Review Course outline Introduction to XML Well formed XML Documents	Lab	Course outline on Blackboard
XML Validation	Document Type Definitions(DTD) XML schemas	Lab Quiz	Assignments, handouts, and lectures are on Blackboard
XML Styling	XML and XPath XML and XSLT	Lab	
XML DOM	XML DOM	Lab	
XML with JavaScript	XML with JavaScript	Project	
XML with PHP	XML with PHP	Project	

Web service	Introduction to Web Services Describing Web Services SOAP and WSDL JSON Restful Services and API's AJAX and Web Services Creating and consuming Web Services Securing Web Services Configuration & Optimization	Lab	
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Please note: this course schedule may change as resources and circumstances require.

Please read Humber's academic calendar at
<http://www.humber.ca/admissions/academic-calendar> **for important dates.**

Student Evaluations

Quizzes	20
Tests	40
Projects	30
Labs	10
Total = 100%	

Degree Students:

In addition to meeting all program specific course and credit requirements, students must have
a
Cumulative Program Grade Point Average (CPGPA) of ≥ 65 in order to be eligible for graduation.

Diploma Students / Post Grad:

In addition to meeting all program specific course and credit requirements, students must have
a
Cumulative Program Grade Point Average (CPGPA) of ≥ 60 in order to be eligible for graduation.

Policies and Procedures

It is the student's responsibility to retain course outlines for possible future use in support of applications for transfer credit to other educational institutions.

It is the student's responsibility to be aware of the College Academic Regulations which can be found on the following website: <http://www.humber.ca/academic-regulations>

The program handbook is available on Blackboard. If you cannot find it please contact the program coordinator. It is your responsibility to read, understand, and follow the program handbook.

Late work

This is a post-graduate level course and it is expected that all work should be handed in on time. If for any reason this is not possible, it is your responsibility to anticipate and discuss the matter with your professor. Medical cases which may interfere with deadlines usually require confirmation in writing from a health care professional. Late work is normally subject to a 5% (five per cent) per day penalty and a zero grade after 10 days. Late work will be accepted solely by arrangement and at the discretion of the professor.

Academic Integrity

Academic integrity is essentially honesty in all academic endeavors. Academic integrity requires that students avoid all forms of academic misconduct or dishonesty, including plagiarism, cheating on tests or exams or any misrepresentation of academic accomplishment.

Academic Concern/Appeals

If a student has questions or concerns regarding a grade on an assignment or test, the student should discuss the matter with the faculty member. The Program Co-ordinator and/or the Associate Dean may be asked to assist if the faculty member and student are unable to resolve issues. For additional information please refer to Section 13 of College's Academic Complaint and Appeal Policy at the web site identified above.

Prior Learning Assessment Recognition (PLAR)

Course credits may be granted in recognition of prior learning, and that Application for Consideration is made through the Office of the Registrar at <http://www.humber.ca/plar/docs/pla.pdf>.

Each course outline must indicate method(s) of assessment.

<i>Challenge Exam</i>	<i>Portfolio</i>	<i>Skills Test</i>	<i>Interview</i>	<i>Other (Specify)</i>	<i>Not Available For PLAR</i>
					x

Accessible Learning Services

Humber seeks to create a welcoming environment where equity, diversity and safety of all groups are fundamental. Humber is dedicated to providing equal access to students with disabilities. The Disability Services staff are available by appointment to assess specific needs,

provide referrals and arrange appropriate accommodations. If you require academic accommodations, contact:

Disability Services: <http://www.humber.ca/disabilityservices/>

North Campus: (416) 675-6622 X5180

Lakeshore Campus: (416) 675-6622 X3265

Disclaimer

While every effort is made by the professor/faculty to cover all material listed in the outline, the order, content, and/or evaluation may change in the event of special circumstances (e.g. time constraints due to inclement weather, sickness, college closure, technology/equipment problems or changes, etc.). In any such case, students will be given appropriate notification in writing, with approval from the Dean (or designate) of the School.

Appendix

Essential Employability Skills (MTCU Requirements)	Graduates of the program reliably demonstrate the ability to:
Communication	
Reading	1. communicate clearly, concisely and correctly in the written, spoken and visual form that fulfills the purpose and meets the needs of the audience 2. respond to written, spoken, or visual messages in a manner that ensures effective communication
Writing	
Speaking	
Listening	
Presenting	
Numeracy	
Understanding and Applying Mathematical Concepts and Reasoning	3. execute mathematical operations accurately
Analysing and using Numerical Data	
Conceptualizing	
Critical Thinking & Problem Solving	
Analysing	4. apply a systematic approach to solve problems 5. use a variety of thinking skills to anticipate and solve problems
Synthesising	
Evaluating	
Decision-Making	
Creative and Innovative Thinking	
Information Management	
Gathering and managing information	

Essential Employability Skills (MTCU Requirements)	Graduates of the program reliably demonstrate the ability to:
Selecting and using appropriate tools and technology for a task or project	6. locate, select, organize and document information using appropriate technology and information systems
Computer literacy	7. analyse, evaluate and apply relevant information for a variety of sources
Internet skills	
Interpersonal	
Teamwork	8. show respect for the diverse opinions, values, belief systems and contributions of others
Relationship management	
Conflict resolution	9. interact with others in groups or teams in ways that contribute to the effective working relationships and the achievement of goals
Leadership	
Networking	
Personal	
Managing self	10. manage the use of time and other resources to complete projects
Managing change and being flexible and adaptable	11. take responsibility for one's actions, decisions, and consequences
Engaging in reflective practice	
Demonstrating personal responsibility	