Date: 3.27.15

From: Ray Trygstad
To: Information Technology and Management Students and Faculty
Subj: **Information Technology and Management Curriculum Revisions**

The following revisions to curricula in Information Technology and Management (ITM) were approved by the ITM Curriculum Committee on March 26, 2015.

1. **Changes to the Bachelor of Information Technology and Management Curriculum:**

   a. Changes to courses:

      i. Remove **ITMD 461,** *Internet Technologies and Web Design* and replace it with **ITMD 361**, *Fundamentals of Web Development*. The content of the existing course remains unchanged but the new title and course description reflects the fact that the extended discussions of Internet technologies and design that were originally included in the course are no longer covered. The first offering of this course is planned for Fall 2015. The design component will move to another new course, **ITMD 362**, *Human-Computer Interaction and Web Design*.

         1) *New Course Description:* This course will cover the creation of Web pages and sites using HTML, CSS, Javascript, jQuery and graphical applications, as well as the client and server architecture of the Internet and related web technologies. The creation and deployment of modern, standards-compliant web pages are addressed. Students create and deploy a Web site with multiple pages and cross-linked structures. Prerequisites: [none] Credit: 2-2-3 Semester Hours

         2) A syllabus for the course is attached.

      ii. Remove **ITMD 434**, *Human-Computer Interaction*, and replace it with **ITMD 362**, *Human-Computer Interaction and Web Design*. This restores the Web design component formerly included in ITMD 461, moves the HCI component formerly in ITMD 434 from a full semester to 9 weeks, and allows students to apply their new HCI knowledge through project-based learning. The first offering of this course is planned for Spring 2016.

         1) *New Course Description:* Students in this course will learn the importance of human computer interaction design and the effectiveness of user-centered design. The course will cover a survey of methods frequently used by the HCI profession, such as usability testing and prototyping, as well as general design principles and how to use design guidelines. A particular emphasis will be placed on usability for Web site engineering, and students will apply knowledge from the field in the design and construction of user-centered Web sites. Prerequisites: ITMD 361 Credit: 2-2-3 Semester Hours

         2) A syllabus for the course is attached.

2. **New Minors in Information Technology and Management**

   a. Two new minors will allow undergraduates in any major at IIT to enter graduate studies in Information Technology and Management with all prerequisite requirements fulfilled. The **Information Technology Foundations** minor prepares students to enter the Master of Information Technology and Management degree, and the **Cyber Security Foundations** minor will prepare students to enter the Master of Cyber Forensics and Security degree.

      i. **Minor in Information Technology Foundations**
         ITM 301 Introduction to Contemporary Operating Systems & Hardware I
         ITM 311 Introduction to Software Development
         ITMD 361 Fundamentals of Web Development
         ITMD 421 Data Modeling and Applications
         Any 400-level ITM elective

      ii. **Minor in Cyber Security Foundations**
         ITM 301 Introduction to Contemporary Operating Systems & Hardware I
         ITM 311 Introduction to Software Development
         ITMD 411 Intermediate Software Development
         ITMD 421 Data Modeling and Applications
         ITMO 440 Introduction to Data Networks and the Internet

         NOTE: Students completing this minor would be required to complete ITMO 556 as students in the Master of Cyber Forensics and Security curriculum.

3. **Revision of Minors in Information Technology and Management**

   a. In the most recent revision of the Bulletin, ITM minors were not revised to reflect changes in course offerings. The minor in **Information System Administration** requires a major revision to incorporate current courses and will become one of our strongest minors. The approved new revision to the minor is as follows:

      i. **Minor in Information System Administration**
         ITM 301 Introduction to Contemporary Operating Systems & Hardware I
         ITMO 440 Introduction to Data Networks and the Internet
         ITMO 456 Introduction to Open Source Operating Systems
         and six (6) semester hours from the following courses:
         IMTO 417 Shell Scripting for System Administrators
         ITMO 433 Enterprise Server Administration
         ITMO 450 Enterprise End-User System Administration
         ITMO 444 Cloud Computing Technologies
         ITMO 453 Open Source Server Administration
         ITMO 454 Operating System Virtualization
         ITMS 458 Operating System Security

4. **Changes in course delivery in the ITM Curriculum**

   a. ITMS 448 Cyber Security Technologies and ITMS 548 Cyber Security Technologies will be offered as separate courses. ITMS 548 will still be on the Rice Campus on Monday but ITMS 448 will be offered on Wednesday in a lab on the Main Campus with labs conducted remotely using our Remotely-Accessible Dynamic Infrastructure for Students to Hack (RADISH).

IIT School of Applied Technology
ILLINOIS INSTITUTE OF TECHNOLOGY
Department of Information Technology and Management

ITMD 361 Syllabus
Fundamentals of Web Development
Fall 2015

Professor: **Brian Bailey**
Address: Perlstein Hall 10 W 33rd St, Room 233, Chicago IL 60616
Telephone: 312.567.6937
Fax: 312.906.5637
Email: bbailey4@iit.edu
Office: 10 W. 35th St. Room 4C8-2, Chicago, IL 60616
Office Hours: TBD

Course Catalog Description: This course will cover the creation of Web pages and sites using HTML, CSS, Javascript, jQuery and graphical applications, as well as the client and server architecture of the Internet and related web technologies. The creation and deployment of modern, standards-compliant web pages are addressed. Students create and deploy a Web site with multiple pages and cross-linked structures. Prerequisites: [none] Credit: 2-2-3 Semester Hours

Course Outcome: Students completing this course will be able to:
- Recognize HTML, CSS and JavaScript mark-up and code in a web page/application.
- Select the proper mark-up tags or code to achieve a particular result.
- Identify improperly used mark-up and code.
- Produce modern standards compliant web pages.
- Deploy web pages to a public server.

Course Objectives: At the conclusion of this course, each successful student will able to:
- Explain the client and server architecture of the Internet and related web technologies.
- Use a basic text editor and other software tools to create web pages using HTML, CSS, JavaScript, jQuery, and images.
- Deploy web pages to a Linux-based web server using sftp

Lecture Days, Time & Place: Wednesday 6:25pm to 9:05pm, *TBD* Building room TBD, IIT Main Campus.

Schedule of Topics/Readings: *You should do all readings prior to class.*

Session	Date	Topic	Reading
1	August 26	Introduction / Focus on Underlying Technologies HTTP Request / Response	Chapter 1-3
2	September 2	Technology Continued & Introduction to HTML, CSS, JS *(Chapter 21-22 discuss images and may be helpful throughout the course)*	Chapter 4 Chapter 21-22
3	September 9	HTML Markup Introductions and Basics	Chapter 5-6
4	September 16	HTML Markup Text & Images	Chapter 7-8
5	September 23	HTML Markup Images & Tables `	Chapter 9-10
6	September 30	HTML Markup Forms	Chapter 11
7	October 7	CSS Introductions and Basics	Chapter 12-13
8	October 14	CSS Rules & Properties	Chapter 14-15
9	October 21	CSS Box Model	Chapter 16-17
10	October 28	CSS Float, Position, Page Layout	Chapter 18-19
11	November 4	JavaScript Introduction and Language Basics	Chapter 19-20
12	November 11	JavaScript – Google Maps API	Online
13	November 18	jQuery Introductions	Online
14	November 24	**No Class: Thanksgiving Holiday**	
15	December 2	JavaScript and jQuery Examples	Online
16	Week of Dec. 7	Final Examination as per the IIT Final Exam schedule	

Textbook: The textbook for this course is **mandatory.**
Robbins, Jennifer Robbins., *Learning Web Design, 4th Edition*, O'Reilly, 2012; (must be 4th edition!)
Print ISBN: 978-1-4493-1927-4 | ISBN 10:1-4493-1927-0
Ebook ISBN: 978-1-4493-3753-7 | ISBN 10:1-4493-3753-8
Book Website: http://www.learningwebdesign.com/
O'Reilly: http://shop.oreilly.com/product/0636920023494.do

ITMD 361 Syllabus
Fundamentals of Web Development

IIT School of Applied Technology
ILLINOIS INSTITUTE OF TECHNOLOGY
Department of Information Technology and Management

Fall 2015

Amazon: http://www.amazon.com/Learning-Web-Design-Beginners-JavaScript/dp/1449319270/ref=sr_1_2?ie=UTF8&qid=1344824699&sr=8-2&keywords=learning+web+design

Technology Requirements: All of the work for this class can be done on virtually any computer, Windows, Mac or Linux. You must be able to edit plain text files and also upload files with an sftp application. There is no paid software you will need in this class. There are commercial products you may use but free or open source alternatives will be discussed and suggested.

You should be familiar with how to use your computer and edit and save files into different folder structures. You will need to understand the folder/path structure your files are saved in and be able to transfer files using an FTP program. We will discuss applications you may use for this class.

Readings/Videos: Readings for the class will be assigned from the textbook as well as in the form of online reading. Online resources and videos will be linked from or embedded in a Blackboard page. It is essential that you do all readings and/or view the videos before coming to class on the assigned date. These materials are a necessary and integral part of the class and will form the basis for any class discussions on the topic. Specific readings are assigned by topic above.

Course Notes: Copies of the course lecture notes in the form of a PDF of the PowerPoint presentation accompanying each lecture will be provided for each student on Blackboard. This should be useful if you must miss a class. You should be aware that note taking is encouraged and should help your understanding of the material.

Course Web Site: http://blackboard.iit.edu/

Blackboard: The course will make intensive use of Blackboard (http://blackboard.iit.edu/) for communications, assignment submissions, group project coordination, providing online resources and administering examinations. All remote students will view the course lectures online via Blackboard, and online readings will be found on Blackboard.

Guest Lectures: Guest lecturers may be featured as part of course topics. When a guest speaker is expected you should make an extra effort to be seated and ready prior to class time. Guest lectures may be in the evening in which case class will not be held during a scheduled morning period. A question & answer/discussion period will be held at the end of each lecturer's presentation.

Attendance: If you will not be able to attend class, please notify me via email or by text message to Number TBD prior to class time. Live section students who miss a class should always watch the lecture online.

Assignments: The only way to learn the concepts presented in this class are to work with them. There will be two main types of assignments for this class. The first are smaller mostly weekly assignments/labs. The number of assignments/labs may very based on course progress. There will also be a larger web site project that spans the entire course and will be due before finals week..

Discussion Board and Quizzes: Throughout the semester I may post questions or topics in the discussion board area in blackboard. Students are expected to post comments in these discussion boards. I will\ notify class anytime a topic is opened in the discussion board, but you should check weekly anyway. Discussion board entries may be links to online articles addressing topics applicable to the course, or may be personal reflections or opinions on topics applicable to the course. If you link to an outside resource, please also explain the link. All students are expected to read all of the discussion board entries in a particular topic. Completion of appropriate discussion board entries and reading of the discussion board will be included in your class participation grade.

I may give quizzes at my discretion and may use them for verification that you have completed assigned course readings or have read and participated in the discussion boards. Quizzes may be online via Blackboard. As they are discretionary, the weight of quizzes in grading is also left to my discretion and will be included in your class participation grade. If I see a regular pattern of comments in these discussion boards, I might not need to give any quizzes in this area.

Examinations: The mid-term and final examination will consist of an examination measuring course outcomes and topics as discussed above. The mid-term exam will be given around the middle of the semester and the final exam will be given during the university's final exam week. The examination will be given online through blackboard and may consist of true/false, multiple choice, matching, short answer, and essay. Details for the particular exam will be posted in the corresponding blackboard posting.

IIT School of Applied Technology
ILLINOIS INSTITUTE OF TECHNOLOGY
Department of Information Technology and Management

ITMD 361 Syllabus
Fundamentals of Web Development
Fall 2015

Extra Credit: In general I do not provide additional extra credit assignments. Occasionally there may be extra credit components of an assignments/labs/project but that is at my discretion and is not guaranteed.

Academic Honesty:

Plagiarism: All work you submit in this course must be your own. You must fully attribute all material directly quoted in papers and you must document all sources used in the preparation of the paper using complete, APA-style bibliographic entries. Including directly quoted material in an assignment without attribution is always plagiarism and will always be treated as such by me. No more than thirty-three percent of material included in any paper may be direct quotes. If you submit plagiarized material you WILL receive a grade of **ZERO** for the assignment, an Academic Honesty Violation Report will be filed, and it may result in your expulsion from the course with a failing grade as per the IIT and ITM academic honesty policies. **There is no excuse for not understanding this policy** and if you do not understand it please let me know and I will be happy to discuss it with you until you do.

Collaboration: Students may only collaborate on assignments or projects that are explicitly designated as group assignments or projects. Students submitting work that is identical or in some cases even substantively the same will be asked to discuss the assignment with me. If one student admits to having copied the work, or if there is clear evidence who is guilty, the guilty student WILL be assigned a grade of ZERO. If no one admits to the offense or a reasonable determination of guilt cannot be made, each student involved WILL be assigned a grade of **ZERO**. In either case, an Academic Honesty Violation Report will be filed, and it may result in your expulsion from the course with a failing grade as per the IIT and ITM academic honesty policies.

Grading: Grading criteria will be as follows:

Points will be deducted for various reasons including non-functioning code, poor mark-up, obsolete elements, invalid markup/code or non-validating markup/code, improper use of JavaScript, obvious copy and paste of old website code, quality of work, and not following methods discussed in class. Assignments will be given with plenty of time to complete the work requested. In general, late work is not accepted and work turned in after the due date will receive a grade of 0. Work that is turned in slightly late (1-2 days) may be accepted with a minimum of a 20% penalty. There will be NO EXCEPTIONS. Please complete your work on time, or early.

See student handbook for grade percentage to letter grade table for undergraduate vs. graduate students. Graduate level students cannot receive a D letter grade for the class.
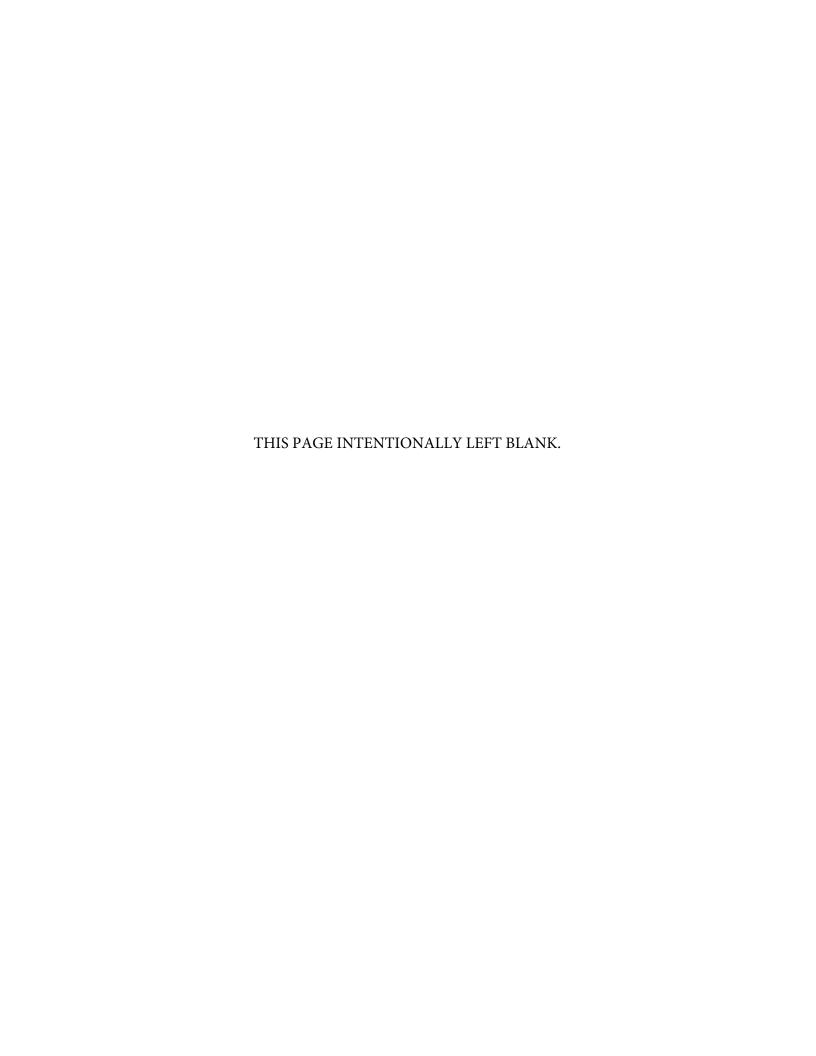
Assignments will be graded according to the following guidelines. They will be graded on completeness of the requirements and quality of work. In order to receive an "A" you would need to fulfill all the requirements and show a high quality of work that reflects substantial effort. No student should expect an "A" for just satisfying the basic requirements of the assignments.

A *Outstanding work reflecting substantial effort* 90-100%
B *Excellent work reflecting good effort* 80-89.99%
C *Satisfactory work meeting minimum expectations*..70-79.99%
D *Substandard work not meeting expectations*..60-69.99%
E *Unsatisfactory work* 0-59.99%

The final grade for the class will be calculated as follows:

Assignments/Labs	25%
Class Project	25%
Mid-term Exam	20%
Final Exam	20%
Class Participation including Attendance, Discussion, and Quizzes	10%

Other Class Resources: Online readings and other class resources may be found at on Blackboard.

Our Contract: This syllabus is my contract with you as to what I will deliver and what I expect from you. If I change the syllabus, I will issue a revised version of the syllabus; the latest version will always be available on Blackboard. Revisions to readings and assignments will be communicated via Blackboard.

Disabilities: Reasonable accommodations will be made for students with documented disabilities. In order to receive accommodations, students must obtain a letter of accommodation from the Center for Disability Resources and make an appointment to speak with me as soon as possible. My office hours are listed on the first page of the syllabus. The Center for Disability Resources (CDR) is located in 3424 S. State St., room 1C3-2 (on the first floor), telephone 312.567.5744 or disabilities@iit.edu.

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IIT School of Applied Technology
ILLINOIS INSTITUTE OF TECHNOLOGY

ITMD 362 Syllabus
Human-Computer Interaction
and Web Design

Department of Information Technology and Management   Spring 2016

Professor: **TBD**
Address: Perlstein Hall 10 W 33rd St, Room 233, Chicago IL 60616
Telephone: 312.567.5290
Fax: 312.567.5001
Email: tba@iit.edu
Office: Perlstein Hall 10 W 33rd St, Room 233, Chicago IL 60616
Office Hours: TBD

Course Catalog Description: Students in this course will learn the importance of human computer interaction design and the effectiveness of user-centered design. The course will cover a survey of methods frequently used by the HCI profession, such as usability testing and prototyping, as well as general design principles and how to use design guidelines. A particular emphasis will be placed on usability for Web site engineering, and students will apply knowledge from the field in the design and construction of user-centered Web sites. Prerequisites: ITMD 361 Credit: 2-2-3 Semester Hours

Course Outcome: Students completing this course will be able to:
- Describe the diversity of information system users and tasks, and their impact on design.
- Describe the core concepts, applicability, and cost benefits of user-centered design.
- Demonstrate how user-centered concerns can be incorporated into system development life cycles.
- Explain the need to evaluate system usability.
- Describe and apply general principles of design.

Course Objectives: At the conclusion of this course, each successful student will able to:
- Recall, describe and apply principles of user-centered design.
- Conduct task analysis & apply the information to user-centered design.
- Evaluate user interface designs with human subjects.
- Recall, explain, and apply the design principles of alignment, contrast, proximity, and repetition.
- Design and build a user-centered Web site applying HCI methods and good principles of design.
- Apply color and typography in Web design to optimize the interface.

Lecture Days, Time & Place: Wednesday 6:25pm to 9:05pm, *TBD* Building room TBD, IIT Main Campus.

Schedule of Topics/Readings: *You should do all readings prior to class.*

Session	Date	Topic	Reading
1	January 13	Introduction to Human Computer Interaction	Hartson Chapters 1 & 2
2	January 20	Interface quality and evaluation	Hartson Chapters 3 & 4
3	January 27	Interactive system and interface design examples	Online
4	February 3	Dimensions of interface variability	Hartson Chapters 5 & 6
5	February 10	User-centered design and task analysis	Hartson Chapters 7 & 8
6	February 17	User interface implementation	Hartson Chapters 9 & 10
7	February 24	User interface implementation: prototyping	Hartson Chapter 11
8	March 2	Evaluation	Hartson Chapters 12 & 13
9	March 9	UX Methods for Agile Development	Hartson Chapter 19
10	March 16	**No Class: Spring Break**	
11	March 23	UX & Web Design Guidelines	Hartson Chapter 22 Williams Chapter 6
12	March 30	Designing the Web interface & navigation *Final Project assignment and discussion*	Williams Chapters 7 & 8
13	April 6	Color & Graphics for the Web	Williams Chapters 9 & 10
14	April 13	Web Typography and Advanced Design	Williams Chapters 12 & 13
15	April 20	Making UX Work In The Real World	Hartson Chapter 25
16	April 27	Project Presentations and Exam Review	
17	Week of May 2	Final Examination as per the IIT Final Exam schedule	

IIT School of Applied Technology
ILLINOIS INSTITUTE OF TECHNOLOGY

ITMD 362 Syllabus
Human-Computer Interaction
and Web Design

Department of Information Technology and Management   Spring 2016

Textbooks: The textbooks for this course are **mandatory.**
- Hartson, H.R. & P. S. Pyla, *The UX Book: Process and Guidelines for Ensuring a Quality User Experience*, Morgan Kaufmann/Elsevier, 2012. ISBN-13: 978-0123852410 ISBN-10: 0123852412
- Williams, Robin & John Tollett, *The Non-Designer's Web Book, 3rd Edition*, Peachpit Press 2005 ISBN-13: 978-0321303370 ISBN-10: 0321303377

Technology Requirements: All of the work for this class can be done on virtually any computer, Windows, Mac or Linux. You must be able to edit plain text files and also upload files with an sftp application. There is no paid software you will need in this class. There are commercial products you may use but free or open source alternatives will be discussed and suggested. Any software applications required for the completion of assignments will be provided.

Readings/Videos: Readings for the class will be assigned from the textbook as well as in the form of online reading. Online resources and videos will be linked from or embedded in a Blackboard page. It is essential that you do all readings and/or view the videos before coming to class on the assigned date. These materials are a necessary and integral part of the class and will form the basis for any class discussions on the topic. Specific readings are assigned by topic above.

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Discussion Board and Quizzes: Throughout the semester I may post questions or topics in the discussion board area in blackboard. Students are expected to post comments in these discussion boards. I will notify class anytime a topic is opened in the discussion board, but you should check weekly anyway. Discussion board entries may be links to online articles addressing topics applicable to the course, or may be personal reflections or opinions on topics applicable to the course. If you link to an outside resource, please also explain the link. All students are expected to read all of the discussion board entries in a particular topic. Completion of appropriate discussion board entries and reading of the discussion board will be included in your class participation grade.

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Examinations: The final examination will consist of an examination measuring course outcomes and topics as discussed above. The final exam will be given during the university's final exam week. The examination will be given online through Blackboard and may consist of true/false, multiple choice, matching, short answer, and essay. Details for the exam will be posted in the Blackboard posting.

Extra Credit: In general I do not provide additional extra credit assignments. Occasionally there may be extra credit components of an assignments/labs/project but that is at my discretion and is not guaranteed.

Academic Honesty:

Plagiarism: All work you submit in this course must be your own. You must fully attribute all material directly quoted in papers and you must document all sources used in the preparation of the paper using complete, APA-style bibliographic entries. Including directly quoted material in an assignment without attribution is always plagiarism and will always be treated as such by me. No more than thirty-three percent of material included in any paper may be direct quotes. If you submit plagiarized material you WILL receive a grade of **ZERO** for the assignment, an Academic Honesty Violation Report will be filed, and it may result in your expulsion from the course with a failing grade as per the IIT and ITM academic honesty policies. **There is no excuse for not understanding this policy** and if you do not understand it please let me know and I will be happy to discuss it with you until you do.

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See student handbook for grade percentage to letter grade table for undergraduate vs. graduate students. Graduate level students cannot receive a D letter grade for the class.

Assignments will be graded according to the following guidelines. They will be graded on completeness of the requirements and quality of work. In order to receive an "A" you would need to fulfill all the requirements and show a high quality of work that reflects substantial effort. No student should expect an "A" for just satisfying the basic requirements of the assignments.

A *Outstanding work reflecting substantial effort* 90-100%
B *Excellent work reflecting good effort* 80-89.99%
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D *Substandard work not meeting expectations* 60-69.99%
E *Unsatisfactory work* 0-59.99%

The final grade for the class will be calculated as follows:
Assignments/Labs..30%
Class Project 30%
Final Exam 30%
Class Participation including Attendance, Discussion, and Quizzes............................10%

Other Class Resources: Online readings and other class resources may be found at on Blackboard.

Our Contract: This syllabus is my contract with you as to what I will deliver and what I expect from you. If I change the syllabus, I will issue a revised version of the syllabus; the latest version will always be available on Blackboard. Revisions to readings and assignments will be communicated via Blackboard.

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ITMD 362 Syllabus
Human-Computer Interaction
and Web Design

Department of Information Technology and Management   Spring 2016

Bibliography: The following resources were consulted in the design and preparation of this course:

- Chan, Susy S., Rosalee J. Wolfe, and Xiaowen Fang. "Teaching HCI in IS/EC Curriculum" p. 1011 in *Proceedings of the Eighth Americas Conference on Information Systems,* Association for Information Systems 2002 online 3/11/15 at http://www.sighci.org/amcis02/CR/Chan.pdf
- Hartson, H.R. & P. S. Pyla, *The UX Book: Process and Guidelines for Ensuring a Quality User Experience*, Morgan Kaufmann/Elsevier 2012. ISBN-13: 978-0123852410 ISBN-10: 0123852412
- Hewett, Baecker, Card, Carey, Gasen, Mantei, Perlman, Strong and Verplank; *ACM SIGCHI Curricula for Human-Computer Interaction* (Chapter 3: Courses in HCI) ACM SIGCHI 1992 online 3/11/15 at http://old.sigchi.org/cdg/cdg3.html
- Perlman, Gary; *HCI Bibliography*: HCI Webliography : Education in HCI. ACM SIGCHI 2015 online 3/11/15 at http://hcibib.org/education/
- Williams, Robin & John Tollett, *The Non-Designer's Web Book, 3rd Edition*, Peachpit Press 2005 ISBN-13: 978-0321303370 ISBN-10: 0321303377