



TRANSACTION PROCESSING I

Parks

Archive 2022

MIS 3371 & MIS 7395

[archive](#)

[client_server.11](#)
[programming_guide](#)

Version 19 --- Last Updated 2:15 PM WED 5/4/2022

NOTICES:

- [Exam 2 Study Guide](#)
- [Exam 1 Study Guide](#)
- [One-Half the TOP 10 STEM Jobs are MIS Roles](#)
- **Get your major changed to MIS -- officially.** -- to change your major to MIS:
 1. Go to the www.bauer.uh.edu homepage
 2. Then click on the "Academics" tab at the top-left of the homepage
 3. Then click on the gray "Undergraduate" tab
 4. Then click on "File a Degree Plan" on the bottom right side under "Quick Links"

It is imperative that you get this done ASAP. Scholarships awards, news from the MIS advisor, and various interviewing and recruiting opportunities are predicated on your major/minor being officially listed as "MIS".
- Join [MISSO](#)
- [Puzzle Game \(separation anxiety\)](#)
- [James DelMonte's Interview Tips](#)
- Your resume needs to be posted on the new Bauer Career Gateway. Go to the Bauer Career Center web site ([here](#)). We use this system as the Bauer College's primary resume depository. Also register with the University Career Center. Most of the firms use the University Career Center ([here](#)) to setup interviews for both internships and full time employment. **Get registered at BOTH of the locations ASAP.**
- Applications developed for this site assume Microsoft's Internet Explorer browser Version 11 or higher (see [Browser settings](#) for this class).
- Career Planning and Interviewing
 - [30 Second Elevator Speech](#)
 - [Behavioral Interview Questions](#)
 - [Star \(Situation Task, Action, Result\)](#) (aka [PAR](#))
- [Writing Letters](#)



COURSE SUMMARY:

This course is the first part of a two course sequence on transaction processing in the client-server environment. This first course concentrates on client side processes involving entry, validation and submission of transaction information across the Internet. The primary technologies employed are: HTML, XML, CSS, DOM, Javascript, Ajax and RSS and WEB 2.0 and an introduction to server-side processing (WSH, ASP, and ASP.NET)

Prerequisites for this course are: MIS 3360 (corequisite -- or COSC Business Option). Students must be either an: (1) MIS major; (2) MIS Minor; or (3) COSC Business Track. Students failing to met these qualifications by the 12th class day will be dropped from the course -- NO exceptions.

Course philosophy:

"Programming is a skill best acquired by practice and example rather than from books"

Alan Mathison Turing

"I provide the examples. You have to practice."

parks

TEXTS:


1. **Best Textbook Recommendation (not required)**
 1. [Javascript, 6th Edition](#)
Don Gosselin

Course Technology, 2014, ISBN-13: 978-1305078444 ISBN-10: 1305078446
 This book is a reference book. The class will NOT follow the content of this book!
 Get later editions of the same textbook if available
 This textbook will NOT be used until WED JAN 30

2. **More Recommended Reading (not required):**

2. **VBScript: Programmer's Reference, 3rd Edition** (deprecated)
 Adrian Kingsley-Hughes, Kathie Kingsley-Hughes, Daniel Read
 Wrox Press Ltd., 2007, ISBN 978-0-470-16808-0
3. **Alan Turing: the Enigma**
 Andrew Hodges
 1983
 ISBN 0-8027-7580-2 (Walker and Company, New York), 2000 paperback
 (the original hardback 1983 edition is out of print)
 Reissued 2014:
Alan Turing: The Enigma: The Book That Inspired the Film "The Imitation Game"
 Andrew Hodges
 2014
 ISBN-13:9780691164724
4. **Responsive Web Design**
 Ethan Marcotte
 ISBN: 978-1-9375571-8-8 ([from A Book Apart](#)), 2011 paperback (2nd Edition)
5. **Mobile First**
 Luke Wroblewski
 ISBN: 978-1-937557-02-7 ([from a Book Apart](#)), 2011 paperback
6. **Turing's Cathedral: The Origins of the Digital Universe**
 George Dyson
 ISBN-10: 0375422773 ISBN-13: 978-0375422775 Pantheon; First Edition edition (March 6, 2012). The book is mostly about von Neumann.
7. **The Victorian Internet: The Remarkable Story of the Telegraph and the Nineteenth Century's On-line Pioneers**
 Tom Standage
 ISBN: 0425171698, (Berkley Trade), 1999
8. **Enigma: The Battle for the Code**
 Hugh Sebag-Montefiore
 ISBN-13: 978-0471490357 ISBN-10: 0471490350 (John Wiley and Sons, NJ)
 The story of the early Enigma efforts and the war attempts at their capture. This is not Turing focused, 2004

OFFICE HOURS:	On-line via Zoom by appointment (email parks@uh.edu)	
GRADING:	Grades assigned for drops after WED FEB 2 (last day to drop without receiving a grade) will be based on your current class grade. If you have a failing grade at the time of the drop, you will receive an F otherwise a W. Grade History for Exam 1 and Exam 2	
	Exam 1 WED MAR 23	50%
	Exam 2 MON MAY 2 (last class session)	50%
DATE	TOPIC	
WED JAN 19	<ul style="list-style-type: none"> • Computing to 1954 • The Alan Turing Home Page by Andrew Hodges • Turing at Wikipedia • Enigma at Wikipedia • The great ideas were done by these people 	Powerpoint Slides for Lecture 1 Login to Cougarnet here then: Video for Lecture 1 (From: 8/23/2021)
MON JAN 24	<ul style="list-style-type: none"> • Post Turing Computing: TP Models and the Client/Server World • The ASCII Table (Counting by various bases) • Other Codes: Morse; Phillips (1, 2, 3) • The Phillips Code (alpha list 4,688+ codes with encoding) • BCD (Binary Coded Decimal) • EBCDIC 	Login to Cougarnet here then: Video for Lecture 2 (From: 8/25/2021)

	<ul style="list-style-type: none"> Life saving tip: . . . — — — . . . and of course: 30 12 The 3-Tier Architecture (the Transaction Flow Model) Algorithms, Compiling and Internals 	
WED JAN 26	<ul style="list-style-type: none"> HTML Fundamentals w3c.org -- the source for all web documentation W3Schools References -- Scripting Reference and more <p style="text-align: center;">TUE JAN 25 -- Last Day to Add a Class</p>	Login to Cougarnet here then: Video for Lecture 3 (From: 8/30/2021)
MON JAN 31	<ul style="list-style-type: none"> HTML Forms A Simple Submit Form A sample form with all the objects The Browser News by Chuck Upsell (see browser stats) About color with and without alpha (transparency) Markup Languages in general (SGML, HTML, XML, CSS, XSL, XHTML, DHTML, SHTML) HTML Tables (See this example) 	Login to Cougarnet here then: Video for Lecture 4 (From: 9/1/2021) HTML GUIDES: <ul style="list-style-type: none"> W3C's HTML 5.1 Mozilla's HTML 5 Guide tutorialspoint tag reference smashingmagazine's 4 page HTML pdf HTML 5 Doctor Bare Bones Guide to HTML (the original HTML 4 guide from 1999) Microsoft HTML Reference: <ul style="list-style-type: none"> HTML Elements Deprecated Elements
WED FEB 2	<ul style="list-style-type: none"> HTML 5 <ul style="list-style-type: none"> Canvas (Basics, Graphs, Dashboards, Slide Shows); range (sliders); new input types HTML 5 video borders progress and meter Color with and without alpha <p style="text-align: center;">WED FEB 2 -- Last Day to Drop without receiving a grade</p>	Login to Cougarnet here then: Video for Lecture 5 (From: 9/8/2021) <ul style="list-style-type: none"> HTML examples
MON FEB 7	<ul style="list-style-type: none"> Using the HTML Validator at w3.org  Client Side Processing Part 1: Scripting Introduction <ul style="list-style-type: none"> The HTML Object Model Accessing HTML Objects from the Script (Part I) Client Side Processing Part 2: Nouns and the Object Model <ul style="list-style-type: none"> Declarations, Naming and Arrays Client Side Processing Part 3: Verbs (Flow Control I) <ul style="list-style-type: none"> If Statements XOR example for encryption and the Beale Codes 	Login to Cougarnet here then: Video for Lecture 6 (From: 9/15/2021) Here are two scripting templates: js_template.htm js_if_example.htm
WED FEB 9	<ul style="list-style-type: none"> Client Side Processing Part 4: Verbs (Flow Control II) <ul style="list-style-type: none"> Loops 	Login to Cougarnet here then: Video for Lecture 7 (From: 9/20/2021) Here are the classroom "loop" examples: js_loops_example.htm
MON FEB 14	<ul style="list-style-type: none"> Client Side Processing Part 5: All Other Verbs <ul style="list-style-type: none"> Sequentials (strings and math) 	Login to Cougarnet here then: Video for Lecture 8 (From: 9/22/2021) Here are the classroom Sequentials: js_strings.htm

WED FEB 16	<ul style="list-style-type: none"> Client Side Processing Part 6: More Sequentials 	Login to Cougarnet here then: Video for Lecture 9 (From: 9/27/2021)
MON FEB 21	<ul style="list-style-type: none"> Client Side Processing Part 7: Organization (Modularity and Chunking) <ul style="list-style-type: none"> Subs and Functions Algorithms and Chunking (Modularization) 	Login to Cougarnet here then: Video for Lecture 10 (From: 9/29/2021)
WED FEB 23	<ul style="list-style-type: none"> Client Side Processing Part 7: User Actions <ul style="list-style-type: none"> Scripting Timed Events Events Resize Event Example 	Login to Cougarnet here then: Video for Lecture 11 (From: 10/4/2021)
MON FEB 28	<ul style="list-style-type: none"> Client Side Processing Part 7: User Actions (continued) 	Login to Cougarnet here then: Video for Lecture 12 (From: 10/6/2021)
WED MAR 2	<ul style="list-style-type: none"> Client Side Processing Part 8: Accessing HTML Objects from Scripts: <ul style="list-style-type: none"> Radio, Checkbox and Select Syntax Extras -- Part II 	Login to Cougarnet here then: Video for Lecture 13 (From: 10/11/2021) This video is the last lecture on midterm content from Fall 2021
MON MAR 7	<ul style="list-style-type: none"> Client Side Processing Part 9: <ul style="list-style-type: none"> Sort, Min, Max Sample Msgboxes and Alerts Graphs and Process Generators Object Model Comparisons: HTML; XML; and DOM 	Login to Cougarnet here then: Video for Lecture 14 (From: 10/18/2021) This video contains the Fall 2021 Midterm "post exam review" that occurred after the Fall 2021 midterm exam.
WED MAR 9	<ul style="list-style-type: none"> Client Side Processing Part 10: <ul style="list-style-type: none"> Pages On-The-Fly (bottom of the Midterm Study Guide) 	
MON-SAT MAR 14-19	Spring Holiday	
MON MAR 21	<ul style="list-style-type: none"> Algorithms for the exam Exam 1 Review 	
WED MAR 23	<p>EXAM 1 [Use IE Browser Only (see browser settings in the Notes section above)]</p> <ul style="list-style-type: none"> Last 21 exams: Fall 2018, Summer 2018, Spring 2018, Fall 2017, Summer 2016, Spring 2016, Fall 2015, Summer 2015, Spring 2015, Fall 2014, Summer 2014, Spring 2014, Fall 2013, Summer 2013, Spring 2013, Fall 2012, Summer 2012, Spring 2012, Fall 2011, Spring 2011, Fall 2010 	
MON MAR 28	<ul style="list-style-type: none"> Post-Exam review The XML DTD Receiving and Displaying XML on the Client 	Login to Cougarnet here then: Video for Lecture 15 (From:10/20/2021)
WED MAR 30	<ul style="list-style-type: none"> The XML DOM and Cross Browser XML on the Client (this page is critical exam 2 content) Sending XML from the Client (this is AJAX see here) IE Example AJAX for GL Account Query Cross Browser Example AJAX for GL Account Query RSS is XML RSS 2.0 specification RSS 2.0.10 specification example Responsive Design 	Login to Cougarnet here then: Video for Lecture 16 (From:10/27/2021)
MON APR 4	<ul style="list-style-type: none"> CSS reference Part 1 	Login to Cougarnet here then: Video for Lecture 17 (From:11/1/2021)
WED APR 6	<ul style="list-style-type: none"> CSS reference Part 2 	Login to Cougarnet here then: Video for Lecture 18 (From:11/3/2021)

<p>MON APR 11</p>	<ul style="list-style-type: none"> • CSS/DOM Examples • Dashboard Navigation Template • Chris Heilmann's Cross-Browser Javascript • User Changes the fontSize • Accordion Page Design 	<p>Login to Cougarnet here then: Video for Lecture 19 (From:11/8/2021)</p>
<p>WED APR 13</p>	<ul style="list-style-type: none"> • The two DOM's, the image replacement examples: <ul style="list-style-type: none"> • (1) VBScript Version • (2) Javascript Version • Menu Navigation Example (Code from www.treeview.net) • Dave Whalen's Cookie FAQ 	<p>Login to Cougarnet here then: Video for Lecture 20 (From:11/10/2021)</p>
<p>MON APR 18</p>	<ul style="list-style-type: none"> • Client-Side Cookie examples (write,read,kill in both VBScript and Javascript) • Mouseovers • DIV, SPAN and innerHTML • A CSS Positioning example • Capt. Webb Flips Out • Viking Baby 	<p>Login to Cougarnet here then: Video for Lecture 21 (From:11/15/2021)</p>
<p>WED APR 20</p>	<ul style="list-style-type: none"> • VIDEO: <ul style="list-style-type: none"> • video scripting for IE (MS Media Player -- *.wmv files) • cross-browser video scripting (MS Media Player -- *.wmv files) • Image Maps and some lyrical work • HTML 5 video (*.mp4, *.ogv, *.webm) • An annotated youtube video tutorial • Last day to drop a course or withdraw with a "W" 	<p>Login to Cougarnet here then: Video for Lecture 22 (From:11/17/2021)</p>
<p>MON APR 25</p>	<ul style="list-style-type: none"> • minesweeper clone (How to use a stack & How to use cookies -- click "HELP") • Web Services: <ul style="list-style-type: none"> • Gauge Maker Version 2.1 • Separation Anxiety Puzzle Game Version 1.7 • Button Maker Version 2 • Excel Macros are vbscript: <ul style="list-style-type: none"> • VBA Macros example discussion • Macro example spreadsheet • Forecasting Macro Example • Excel Charts Macros Discussion • Chart spreadsheet example 	<p>Login to Cougarnet here then: Video for Lecture 23 (From:11/22/2021)</p>
<p>WED APR 27</p>	<ul style="list-style-type: none"> • Server Side Processes I: *.cgi,*.asp, *.aspx, *.pl, *.php • echo.asp the server side asp program for form checking (example). • James Marshall's cgi-bin program in C that checks form contents (See compilation notes) • ASP.NET II (VB.NET and C#) • Server Side Processes: MS-SQL, Oracle, and MS-Access <ul style="list-style-type: none"> • Server-Side Processing and TP II (MIS 4372) • Security, Backup and Recovery • TP Controls and Auditing -- COBIT, COSO/ERM, ITIL (MIS 4373) <ul style="list-style-type: none"> • Big 4 Genealogy • Exam 2 Review 	<p>Login to Cougarnet here then: Video for Lecture 24 (From:11/29/2021)</p>
	<p>EXAM 2 Last 20 2nd Exams: [Use IE 11 Browser Only (see browser settings in the Notes</p>	

MON MAY 2	section above)] Fall 2018 , Summer 2018 , Spring 2018 , Fall 2017 , Spring 2016 , Fall 2015 , Summer 2015 , Spring 2015 , Fall 2014 , Summer 2014 , Spring 2014 , Fall 2013 , Summer 2013 , Spring 2013 , Fall 2012 , Summer 2012 , Spring 2012 , Fall 2011 , Spring 2011 , Fall 2010
IMPORTANT DATES	
WED JAN 19	First Day of Class
TUE JAN 25	Last Day to Add a Class
WED FEB 2	Last Day to Drop or Withdraw without receiving a grade
WED MAR 23	Exam 1
MON-SAT MAR 14-19	Spring Break
WED APR 20	Last Day to Drop a Class
MON MAY 2	Exam 2 Last Day of Class
ADMINISTRATIVE NOTES	
<ul style="list-style-type: none"> • Course Evaluations The C.T. Bauer College of Business requires all its instructors to be evaluated by their students. The results of these evaluations are important to provide feedback to instructors on how their performance can be improved. We encourage students to provide feedback to instructors through the evaluation process. • Academic Honesty The University of Houston Academic Honesty Policy is strictly enforced by the C.T. Bauer College of Business. No violations of this policy will be tolerated in this course. A discussion of the policy is included in the University of Houston Student Handbook which can be seen here. Students are expected to be familiar with this policy (click on the "Academic Honesty" link). Specifically see pages 9-14. Pay particular attention to the list of behaviors that are considered academic dishonesty in Section 3.02 Academic Dishonesty Prohibited. Items (d) and (h) say: <ul style="list-style-type: none"> ◦ (d) Representing as one's own work the work of another without acknowledging the source (plagiarism). This would include submitting substantially identical laboratory reports or other materials in fulfillment of an assignment by two or more individuals, whether or not these used common data or other information, unless this has been specifically permitted by the instructor; [NOTE: I DO NOT PERMIT JOINT WORK] ◦ (h) Using another's laboratory results as one's own, whether with or without the permission of the owner; • Accommodations for Students with Disabilities The C. T. Bauer College of Business would like to help students who have disabilities achieve their highest potential. To this end, in order to receive academic accommodations, students must register with the Center for Students with Disabilities (CSD) 713-743-5400, and present approved accommodation documentation to their instructors in a timely manner. 	