



[archive](#)

# TRANSACTION PROCESSING I

## Syllabus (work in Progress)

Messenger/Parks      Fall 2022

MIS 3371 (section 23883) MW 2:30-4 170 MH  
 MIS 3371 (section 10184) MW 4-5:30 170 MH  
 MIS 7375 (section 16618) W 6-9PM 128 MH

Version 20 --- Last Updated 10:15 AM WED 9/7/2022

### HISTORICAL NOTICES:

- [Exam 2 Study Guide](#)
- Midterm Exam Scores Distributions (previous semester):  
     [undergraduates here](#) [3/23]  
     [graduates here](#) [3/24]
- Midterm Exam Instructions: [here](#)
- [Midterm 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](http://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](#)

bethoven



### 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 or by appointment (email <a href="mailto:jake@uh.edu">jake@uh.edu</a> )	
GRADING:	<a href="#">Grade History for Exam 1 and Exam 2</a>	
	Homework Assignments (3 to 5)	25%
	Exam 1 Online Sept 29th-Oct 2nd	25%
	Exam 2 Online Oct 27th-Oct 30th	25%
	Exam 3 Online Dec 1st-Dec 4th	25%
DATE	TOPIC	
MON AUG 22	<ul style="list-style-type: none"> <li> Computing to 1954</li> <li> <a href="#">The Alan Turing Home Page</a> by Andrew Hodges</li> <li> <a href="#">Turing at Wikipedia</a></li> <li> <a href="#">Enigma at Wikipedia</a></li> <li> The great ideas were done by these <a href="#">people</a></li> </ul>	<a href="#">Powerpoint Slides</a> for Lecture 1
WED AUG 24	<ul style="list-style-type: none"> <li> Post Turing Computing; TP Models and the Client/Server World</li> <li> The <a href="#">ASCII Table</a> (<a href="#">Counting by various bases</a>)</li> <li> Other Codes: <a href="#">Morse</a>; <a href="#">Phillips (1, 2, 3)</a></li> <li> <a href="#">The Phillips Code (alpha list 4,688+ codes with encoding)</a></li> <li> <a href="#">BCD (Binary Coded Decimal)</a></li> <li> <a href="#">EBCDIC</a></li> <li> Life saving tip: . . . - - - . . . and of course: 3012</li> <li> <a href="#">The 3-Tier Architecture (the Transaction Flow Model)</a></li> <li> Algorithms, Compiling and Internals</li> </ul>	
MON AUG 29	<ul style="list-style-type: none"> <li> HTML Fundamentals</li> <li> <a href="#">w3c.org</a> -- <b>the</b> source for all web documentation</li> <li> <a href="#">W3Schools References</a> -- Scripting Reference and more</li> </ul>	
MON AUG 31	<ul style="list-style-type: none"> <li> HTML Fundamentals</li> <li> <a href="#">w3c.org</a> -- <b>the</b> source for all web documentation</li> <li> <a href="#">W3Schools References</a> -- Scripting Reference and more</li> <li> <a href="#">HTML Forms</a></li> <li> <a href="#">A Simple Submit Form</a></li> <li> <a href="#">A sample form with all the objects</a></li> <li> The <a href="#">Browser News</a> by Chuck Upsell (see <a href="#">browser stats</a>)</li> <li> <a href="#">About color with and without alpha (transparency)</a></li> <li> <a href="#">Markup Languages</a> in general (SGML, HTML, XML, CSS, XSL, XHTML, DHTML, SHTML)</li> <li> HTML Tables (See this <a href="#">example</a>)</li> </ul>	<p><b>HTML GUIDES:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">W3C's HTML 5.1</a></li> <li>• <a href="#">Mozilla's HTML 5 Guide</a></li> <li>• <a href="#">tutorialspoint tag reference</a></li> <li>• <a href="#">smashingmagazine's 4 page HTML pdf</a></li> <li>• <a href="#">HTML 5 Doctor</a></li> <li>• <a href="#">Bare Bones Guide to HTML</a> (the original HTML 4 guide from 1999)</li> <li>• Microsoft HTML Reference:             <ul style="list-style-type: none"> <li> <a href="#">HTML Elements</a></li> <li> <a href="#">Deprecated Elements</a></li> </ul> </li> </ul>

<p>WED SEP 7</p>	<ul style="list-style-type: none"> <li><a href="#">HTML 5</a></li> <li><a href="#">Canvas (Basics, Graphs, Dashboards, Slide Shows):</a></li> <li><a href="#">range (sliders):</a></li> <li><a href="#">new input types</a></li> <li><a href="#">HTML 5 video</a></li> <li><a href="#">borders</a></li> <li><a href="#">progress and meter</a></li> <li><a href="#">Color with and without alpha</a></li> </ul> <p style="text-align: center;"><b>Last Day to Drop without receiving a grade</b></p>	<p><a href="#">HTML examples</a></p>
<p>MON SEP 12</p>	<ul style="list-style-type: none"> <li>Using the <a href="#">HTML Validator</a> at <a href="#">w3.org</a> </li> <li>Client Side Processing Part 1: Scripting Introduction             <ul style="list-style-type: none"> <li><a href="#">The HTML Object Model</a></li> <li><a href="#">Accessing HTML Objects from the Script (Part I)</a></li> </ul> </li> <li>Client Side Processing Part 2: Nouns and the Object Model             <ul style="list-style-type: none"> <li><a href="#">Declarations, Naming and Arrays</a></li> </ul> </li> <li>Client Side Processing Part 3: Verbs (Flow Control I)             <ul style="list-style-type: none"> <li><a href="#">If Statements</a></li> <li><a href="#">XOR example</a> for encryption and the <a href="#">Beale Codes</a></li> </ul> </li> </ul>	<p>Scripting templates:  <a href="#">js_template.htm</a>  <a href="#">js_if_example.htm</a></p>
	<ul style="list-style-type: none"> <li>Client Side Processing Part 4: Verbs (Flow Control II)             <ul style="list-style-type: none"> <li><a href="#">Loops</a></li> </ul> </li> </ul>	<p>Here are the classroom "loop" examples:  <a href="#">js_loops_example.htm</a></p>
	<ul style="list-style-type: none"> <li>Client Side Processing Part 5: All Other Verbs             <ul style="list-style-type: none"> <li><a href="#">Sequentials (strings and math)</a></li> </ul> </li> </ul>	<p>Here are the classroom Sequentials:  <a href="#">js_strings.htm</a></p>
	<ul style="list-style-type: none"> <li>Client Side Processing Part 6: More Sequentials</li> </ul>	
	<ul style="list-style-type: none"> <li>Client Side Processing Part 7: Organization (Modularity and Chunking)             <ul style="list-style-type: none"> <li><a href="#">Subs and Functions</a></li> <li><a href="#">Algorithms and Chunking (Modularization)</a></li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>Client Side Processing Part 7: User Actions             <ul style="list-style-type: none"> <li><a href="#">Scripting Timed Events</a></li> <li><a href="#">Events</a></li> <li><a href="#">Resize Event Example</a></li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>Client Side Processing Part 7: User Actions (continued)</li> </ul>	
	<ul style="list-style-type: none"> <li>Client Side Processing Part 8: Accessing HTML Objects from Scripts:             <ul style="list-style-type: none"> <li><a href="#">Radio, Checkbox and Select Syntax Extras -- Part II</a></li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>Client Side Processing Part 9:             <ul style="list-style-type: none"> <li><a href="#">Sort, Min, Max Sample</a></li> </ul> </li> </ul>	

	<ul style="list-style-type: none"> <li><a href="#">?</a> <a href="#">Msgboxes and Alerts</a></li> <li><a href="#">?</a> <a href="#">Graphs and Process Generators</a></li> <li><a href="#">?</a> <a href="#">Object Model Comparisons: HTML: XML: and DOM</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">?</a> Client Side Processing Part 10:</li> <li><a href="#">?</a> <a href="#">Pages On-The-Fly</a> (bottom of the Midterm Study Guide)</li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">?</a> Algorithms for the exam</li> <li><a href="#">?</a> Exam 1 Review</li> </ul>	
	<p><b>EXAM 1</b></p> <ul style="list-style-type: none"> <li><a href="#">?</a> Last 21 exams: <a href="#">Fall 2018</a>, <a href="#">Summer 2018</a>, <a href="#">Spring 2018</a>, <a href="#">Fall 2017</a>, <a href="#">Summer 2016</a>, <a href="#">Spring 2016</a>, <a href="#">Fall 2015</a>, <a href="#">Summer 2015</a>, <a href="#">Spring 2015</a>, <a href="#">Fall 2014</a>, <a href="#">Summer 2014</a>, <a href="#">Spring 2014</a>, <a href="#">Fall 2013</a>, <a href="#">Summer 2013</a>, <a href="#">Spring 2013</a>, <a href="#">Fall 2012</a>, <a href="#">Summer 2012</a>, <a href="#">Spring 2012</a>, <a href="#">Fall 2011</a>, <a href="#">Spring 2011</a>, <a href="#">Fall 2010</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">?</a> Post-Exam review</li> <li><a href="#">?</a> The <a href="#">XML DTD</a></li> <li><a href="#">?</a> <a href="#">Receiving and Displaying XML on the Client</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">?</a> <a href="#">The XML DOM and Cross Browser XML on the Client</a> (this page is critical exam 2 content)</li> <li><a href="#">?</a> <a href="#">Sending XML from the Client</a> (this is <b>AJAX</b> see <a href="#">here</a>)</li> <li><a href="#">?</a> <a href="#">IE Example AJAX for GL Account Query</a></li> <li><a href="#">?</a> <a href="#">Cross Browser Example AJAX for GL Account Query</a></li> <li><a href="#">?</a> <a href="#">RSS is XML</a></li> <li><a href="#">?</a> <a href="#">RSS 2.0 specification</a></li> <li><a href="#">?</a> <a href="#">RSS 2.0.10 specification</a></li> <li><a href="#">?</a> <a href="#">example</a></li> <li><a href="#">?</a> <a href="#">Responsive Design</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">?</a> <a href="#">CSS reference Part 1</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">?</a> <a href="#">CSS reference Part 2</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">?</a> <a href="#">CSS/DOM Examples</a></li> <li><a href="#">?</a> <a href="#">Dashboard Navigation Template</a></li> <li><a href="#">?</a> Chris Heilmann's <a href="#">Cross-Browser Javascript</a></li> <li><a href="#">?</a> <a href="#">User Changes the fontSize</a></li> <li><a href="#">?</a> <a href="#">Accordion Page Design</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">?</a> The two DOM's, the image replacement examples:             <ul style="list-style-type: none"> <li><a href="#">?</a> (1) VBScript <a href="#">Version</a></li> <li><a href="#">?</a> (2) Javascript <a href="#">Version</a></li> </ul> </li> <li><a href="#">?</a> <a href="#">Menu Navigation Example</a> ( Code from <a href="#">www.treeview.net</a>)</li> <li><a href="#">?</a> Dave Whalen's <a href="#">Cookie FAQ</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">?</a> <a href="#">Client-Side Cookie examples</a> (write,read,kill in both VBScript and Javascript)</li> </ul>	

	<ul style="list-style-type: none"> <li><a href="#">? <u>Mouseovers</u></a></li> <li><a href="#">? <u>DIV, SPAN and innerHTML</u></a></li> <li><a href="#">? <u>A CSS Positioning example</u></a></li> <li><a href="#">? <u>Capt. Webb Flips Out</u></a></li> <li><a href="#">? <u>Viking Baby</u></a></li> </ul>	
<p>WED NOV 16</p>	<ul style="list-style-type: none"> <li><a href="#">? <b>VIDEO:</b></a></li> <li><a href="#">? <u>video scripting for IE (MS Media Player -- *.wmv files)</u></a></li> <li><a href="#">? <u>cross-browser video scripting (MS Media Player -- *.wmv files) ---&gt;</u></a></li> <li><a href="#">? <u>Image Maps and some lyrical work</u></a></li> <li><a href="#">? <u>HTML 5 video (*.mp4, *.ogv, *.webm)</u></a></li> <li><a href="#">? <u>An annotated youtube video tutorial</u></a></li> </ul> <p><b>Last day to drop a course or withdraw with a "W"</b></p>	
	<ul style="list-style-type: none"> <li><a href="#">? <u>minesweeper clone</u></a> (How to use a stack &amp; How to use cookies -- click "HELP")</li> <li><a href="#">? <u>Web Services:</u></a> <ul style="list-style-type: none"> <li><a href="#">? <u>Gauge Maker Version 2.1</u></a></li> <li><a href="#">? <u>Separation Anxiety Puzzle Game Version 1.7</u></a></li> <li><a href="#">? <u>Button Maker Version 2</u></a></li> </ul> </li> <li><a href="#">? <u>Excel Macros are vbscript:</u></a> <ul style="list-style-type: none"> <li><a href="#">? <u>VBA Macros example discussion</u></a></li> <li><a href="#">? <u>Macro example spreadsheet</u></a></li> <li><a href="#">? <u>Forecasting Macro Example</u></a></li> <li><a href="#">? <u>Excel Charts Macros Discussion</u></a></li> <li><a href="#">? <u>Chart spreadsheet example</u></a></li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">? <u>Server Side Processes I: *.cgi,*.asp, *.aspx, *.pl, *.php</u></a></li> <li><a href="#">? <u>echo.asp <u>the server side asp program</u> for form checking (example).</u></a></li> <li><a href="#">? <u>James Marshall's <u>cgi-bin program in C</u> that checks form contents</u></a> (See <a href="#">compilation notes</a>)</li> <li><a href="#">? <u>ASP.NET II (VB.NET and C#)</u></a></li> <li><a href="#">? <u>Server Side Processes: MS-SQL, Oracle, and MS-Access</u></a></li> <li><a href="#">? <u>Server-Side Processing and TP II (MIS 4372)</u></a></li> <li><a href="#">? <u>Security, Backup and Recovery</u></a></li> <li><a href="#">? <u>TP Controls and Auditing -- COBIT, COSO/ERM, ITIL (MIS 4373)</u></a></li> <li><a href="#">? <u>Big 4 Genealogy.</u></a></li> <li><a href="#">? <b>Exam 2 Review</b></a></li> </ul>	
	<p><b>EXAM 2</b> Last 20 2nd Exams:  <a href="#">Fall 2018</a>, <a href="#">Summer 2018</a>, <a href="#">Spring 2018</a>, <a href="#">Fall 2017</a>, <a href="#">Spring 2016</a>, <a href="#">Fall 2015</a>, <a href="#">Summer 2015</a>, <a href="#">Spring 2015</a>, <a href="#">Fall 2014</a>, <a href="#">Summer 2014</a>, <a href="#">Spring 2014</a>, <a href="#">Fall 2013</a>, <a href="#">Summer 2013</a>, <a href="#">Spring 2013</a>, <a href="#">Fall 2012</a>, <a href="#">Summer 2012</a>, <a href="#">Spring 2012</a>, <a href="#">Fall 2011</a>, <a href="#">Spring 2011</a>, <a href="#">Fall 2010</a></p>	

<b>IMPORTANT DATES</b>	
MON AUG 22	First Day of Class
MON AUG 29	Last Day to Add a Class
WED SEP 7	Last Day to Drop or Withdraw without receiving a grade
SEP 29-OCT 2	Exam 1
OCT 27-OCT 30	Exam 2
WED NOV 16	Last Day to Drop with a "W"
WED NOV 30	Last Day of Class
DEC 1-DEC 5	Exam 3
<b>ADMINISTRATIVE NOTES</b>	
<ul style="list-style-type: none"> <li>● <b>Course Evaluations</b> 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.</li> <li>● <b>Academic Honesty</b> 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 <a href="#">here</a>. 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 <u>Section 3.02 Academic Dishonesty Prohibited</u>. Items (d) and (h) say: <ul style="list-style-type: none"> <li>○ (d) Representing as one's own work the work of another without acknowledging the source (plagiarism). <b>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 IN THIS CLASS]</b></li> <li>○ (h) <b>Using another's laboratory results as one's own, whether with or without the permission of the owner;</b></li> </ul> </li> <li>● <b>Accommodations for Students with Disabilities</b> 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.</li> </ul>	