

# Advanced Web Technologies CS600

Compiled by Dr. Elias Majdalani

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# WELCOME



# Starting

## Objectives

### Knowledge

1. Syllabus
2. Class Requirements





**Marshall University**  
**College of Computer Science and Engineering**  
**Syllabus**

Course Title/Number	Advanced Web Technologies CS 600
Semester/Year	<u>Online</u> <u>Fall</u> 2024
Days/Time	
Location	100% asynchronous online course with no required synchronous meetings
Instructor	Dr. Elias Majdalani
Office	
Phone	Division <u>Secretary</u> 304-696-4664
E-Mail	majdalan@marshall.edu
Office Hours	By Appointments.
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to <a href="http://www.marshall.edu/academic-affairs">www.marshall.edu/academic-affairs</a> and clicking on "Marshall University Policies." <u>Or</u> , you can access the policies directly by going to <a href="http://www.marshall.edu/academic-affairs/policies/">www.marshall.edu/academic-affairs/policies/</a> . Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment

This Course is designed to Introduce web and data structure knowledge and explore the practical side of advance web data structure operation using the Microsoft .Net application framework, object oriented and ASP.net development tools. Key topics will include WEB and Data structure programming using Visual studio C# and VB.net programming and function tools to harness the power of the .Net windows framework.

#### Required Texts, Additional Reading, and Other Materials

##### 1. Using Zybook for the class. recommended

zyBook: CS 600: Advanced Web Technology

zyBook code: MARSHALLCS600MajdalaniFall2024

zyBook ISBN: 979-8-203-35406-8

Email: majdalan@marshall.edu

Few chapters and quizzes will be used from zybook, you can still access the unused chapter for your own information.

##### **Optional:**

2. ISBN : 978-1-890774-76-9 authors: Mary Delamater and Anne Boehm Title : Murach's ASP.net 4.5 web programming .
3. Visual Studio 2017 professional isbn 978-1-119-40458-3, (May be substituted by a customized book under development.)

Copy into your syllabus, discussion board, etc. [What does this mean?](#)

Copy instructions to clipboard

1. Click any zyBooks assignment link in your learning management system (Do not go to the zyBooks website and create a new account)
2. Subscribe

A subscription is **\$89**. Students may begin subscribing on Aug 05, 2024 and the cutoff to subscribe is Nov 30, 2024. Subscriptions will last until Dec 30, 2024.

Grades will be reported on a percentage grading scale as follows:

Percentages		
A	=	$\geq 90$
B	=	$\geq 80 \ \& \ < 90$
C	=	$\geq 70 \ \& \ < 80$
D	=	$\geq 60 \ \& \ < 70$
F	=	Below 60

<u>Zybook challenge</u>	10%
<u>Zybook Practice</u>	10%
Final Project	8%
Test	40%
Project/Assignment	30%
Discussion participation	2%

## Course Requirements/Due Dates

- Students must be proficient in the use of computers, the Internet, browsers, Microsoft Office Word, and other common applications.
- For minimum computer requirements, please see [Student Resources](#) and [IT: Recommended Hardware](#) (URLs: <http://www.marshall.edu/muonline/student-resources/> and <http://www.marshall.edu/it/rechardware/>).
- To check your browsers, use the [Blackboard Browser Checker](#) and ensure that you set permissions properly and have all the necessary plug-ins. (URL: [https://help.blackboard.com/Learn/Student/Getting\\_Started/Browser\\_Support/Browser\\_Checker](https://help.blackboard.com/Learn/Student/Getting_Started/Browser_Support/Browser_Checker))
- Students must be able to use Marshall email, as well as the following tools in Blackboard: course messages, assignments, discussion board forums, tests, blogs, journals, wikis, and groups. Links to Blackboard Help and tutorials are available on the Start Here page and on the Tech Support tab in Blackboard.
- [Adobe Acrobat Reader](#) may be needed to read some files. This plug-in is available free. (URL: <https://get.adobe.com/reader/>) See the Tech Support tab in Blackboard for additional information and links.
- Students may be required to submit assignments as Microsoft Word documents (.docx), using the most recent Microsoft Office suite. Office 365 is available free to students enrolled at Marshall University. For information visit [Marshall IT: Office 365](#) (URL: <http://www.marshall.edu/it/office365/>).
- See the Tech Support tab in Blackboard for additional information on browsers, technology, and apps.

### Technology Assistance:

- [Blackboard Support Center](#) (URL: <http://marshall.edusupportcenter.com>)
- Marshall [Information Technology \(IT\) Service Desk](#) (Help Desk) (URL: <http://www.marshall.edu/it/departments/it-service-desk/students/>)
  - Huntington: (304) 696-3200
  - South Charleston: (304) 746-1969
  - Email: [itservicedesk@marshall.edu](mailto:itservicedesk@marshall.edu)

The course is divided into 3 units, each Unit is divided into 5 weeks folders. [The Weeks](#) Folder include PowerPoint presentation, video as well as Lab, project and exam.

Exams: There will be several [Test Each](#) Test will be a combination of multiple choice, T/F with 100 possible points.

Labs and Project: There will be several Lab practice and Project throughout the course. The details of each including what submission requirement will be described on the lab and project assignment sheet. Partial credit will be given at the instructor's discretion.

If compressing and zipping your program folder is not working and you are not able to upload, then You may use screen shot to capture your work and past it into word document that you can upload to blackboard to submit.

Submissions are done through MU Online, make sure that you give yourself ample time to submit the assignment. DO NOT email me your Lab or project assignment. Work Assignments may be submitted through Marshall University's Blackboard System. As a result, each student must have access to a computer and Internet connection.

# CS 600 Advance Web Technologies

## Checklist

08/19/2024

Title	Original Chapter Name/ zyBook	Current Chapter #	Notes	Points	Due
<b>Here (Introduction to this course)</b>					
0.1	Syllabus (Textbook, Course plan, Policies, etc.) and Introduce Instructor				
0.2	Textbook				
0.3	video welcome				
0.4	Discussion 1: Introduce yourself to your classmates				
<b>1. Database for Beginner</b>					
1.0	Unit 1 Goals				
	Unit 1 Discussion				
<b>Week 1: Requirements Visual Studio install and overview</b>					
1.1	Where How and What		customized PDF		
1.2	Video presentation		Video Slide Presentation		
1.3	Link To Online Documentations		Online documentation Link		
<b>Week 2: Web and .NET Framework, ASP.Net overview</b>					
2.1	Internet and ASP .Net		Customized presentation		
2.2	Internet and ASP .Net video		video Slide Presentation		
2.3	Zybooks Web Overview practice		Web Overview practice		8/31/2024
2.4	Zybook web overview challenge		Web Overview challenge		8/31/2024
<b>Week 3: HTML VS CSS</b>					
3.1	Presentation HTML, CSS video		video Slide Presentation		
3.2	Presentation HTML, CSS PDF		Customized presentation		
3.3	Zybook HTML Fundamentals practice		Zybook HTML fundamentals practice		9/7/2024
3.3	Zybook HTML Fundamentals challenge		Zybook HTML fundamentals challenge		9/7/2024
<b>Week 4: ASP.net programming, Validation web form</b>					
4.1	Zybook CSS fundamentals Practice		Zybook CSS fundamentals Practice		9/21/2024
4.1	Zybook CSS fundamentals challenge		Zybook CSS fundamentals challenge		9/21/2024
4.2	ASP.net Programming validation and others		presentation PDF customized		
4.3	ASP.net Programming validation video		Video presentation PDF		
4.4	Project Valid2		Valid1 and 2		9/22/2024
<b>Week 5: Mapping, sessions dropdown</b>					
5.1	sessions, sitemap Presentation		presentation customized		
5.2	video sessions, sitemap Presentation		Video		
5.3	Project Dropdowns		Project		9/29/2024
5.4	Test1		Test		9/29/2024
<b>Unit 2: Navigation, Site Mapping</b>					
1.0	Unit 2 Goals				
	Unit 2 Discussion				
<b>Week 6: Server Control, Cookies and URL encoding</b>					
6.1	State, Cookie presentation		presentation PDF customized		
6.2	video Server control State, Cookie presentation		Video		
6.3	Project Site map		Project		10/12/2024
<b>Week 7: Master Page</b>					
7.1	Master Page		presentation PDF customized		
7.1	Video Master Page		Video		
7.2	Test 2		Test		10/13/2024
<b>Week 8: Test and assign Accessibility</b>					
8.1	Zybook accessibility practice				10/19/2024
8.1	Zybook accessibility challenge				10/19/2024
8.2	Test				10/27/2024
<b>Week 9: MVC</b>					
9.1	MVC Presentation		presentation Customized	24	
9.1	Video MVC Presentation		Video		
9.2	Project Masterpage				11/2/2024
<b>Week 10: Database</b>					
10.1	DB programming presentation		presentation Customized	12	
10.2	Zybook relational DB and SQL Challenge		Zybook relational DB and SQL Challenge		11/9/2024
10.2	Zybook relational DB and SQL Practice		Zybook relational DB and SQL Practice		11/9/2024
<b>Unit 3: MVC and DB</b>					
3.1	Unit 3 Goals				
	Unit 3 Discussion				
<b>Week 11: DB .Net Tools</b>					
11.1	Sql Presentation		presentation customized		
11.2					
<b>Week 12: Grid and Form View Controls</b>					
12.1	Grid and Form presentations		presentation customized		
12.2	Final Project				12/1/2024
<b>Week 13: Deployment and Mobile</b>					
13.1	Presentation		presentation Customized		
13.2	Zybook mobile practice and challenge				12/4/2024
<b>Week 14: API and Contents control</b>					
14.1	API Presentation		reading		
14.2	Zybook Api practice and challenge				12/5/2024
14.4	Ajax presentation		reading		
<b>Week 15: Final testing</b>					
15.2	Final Test				12/11/2024