Marshall University
College of Computer Science and Engineering
Syllabus

Course Title/Number	Advanced Web Technologies CS 600
Semester/Year	Online Fall 2024
Days/Time	
Location	100% asynchronous online course with no required synchronous meetings
Instructor	Dr. Elias Majdalani
Office	
Phone	Division Secretary 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 www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to www.marshall.edu/academic-affairs/policies/. 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

Academic Calendar

For beginning, ending, and add/drop dates, see the Marshall University Academic Calendar (URL: https://www.marshall.edu/academic-calendar/).

Course Description: From Catalog

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  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.
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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. <u>What does this mean?</u>
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.

The table below shows the following relationships: How each student learning outcome will be practiced and assessed in the course.

Course student learning outcomes	How students will practice each outcome in this course	How student achievement of each outcome will be assessed in this course
Students will…	Be able to understand the core components and structure of the .NET Framework and Visual Studio.	assessments-exam questions,
Students will	Be able to understand object-oriented structure and building powerful web applications with ASP.NET	assessments-exam questions
Students will	Be able to understand the structure, configuration, and usage of Microsoft Database in the .Net framework.	assessments-exam questions
Students will	Be able of using advanced topics and tools such as client-side validation structure, mapping, forms, models and controls.	assessments-exam questions

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)

- 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/)

  o Huntington: (304) 696-3200

  o South Charleston: (304) 746-1969

- Email: 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.

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

Percentages		
A	=	>=90
B	=	>=80 & <90
C	=	>=70 & <80
D	=	>=60 &<70
F	=	Below 60

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

Health and Safety Information

All members of the Marshall University community are expected to always observe health and safety protocols. This includes general health and safety protocols as well as specific protocols that might emerge in response to community and campus health conditions.

University Policies

By enrolling in this course, you agree to the University Policies. Please read the full text of each policy (listed below) by going to MU Academic Affairs: University Policies.

(URL: https://www.marshall.edu/academic-affairs/policies/)

- Academic Dishonesty Policy
- Academic Dismissal Policy
- Academic Forgiveness Policy
- Academic Probation and Suspension Policy
- Affirmative Action Policy
- Dead Week Policy
- D/F Repeat Rule
- Excused Absence Policy for Undergraduates
- Inclement Weather Policy
- Sexual Harassment Policy- Title IX prohibits the harassment of students based on sex, which includes pregnancy, childbirth, and related conditions. This includes that students will not be penalized for taking medically necessary leave related to pregnancy, childbirth, or related conditions. Marshall's Title IX Office may be contacted at TitleIX@marshall.edu
- Students with Disabilities (Policies and Procedures)
- University Computing Services Acceptable Use Policy

Course Structure:
The course is organized in 3 units of 5 weeks each presented in folders in Blackboard.
Tentative course schedule may be subject to change. Check next page.

08/19/2024

	Title	Original Chapter Name/ zyBook	Current Chapter #	Notes	Points	Due
t Here (Introduction to this course)						
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					
1. Database for Beginner						
1.0	Unit 1 Goals					
	Unit 1 Discussion					
Week 1: Requirements Visual Studio install and overview						
1.1	Where How and What	customized PDF				
1.2	Video presentation	Video Slide Presentation				
1.3	Link To Online Documentations	Online documentation Link				
Week 2: !>Web and .NET Framework,ASP.Net overview						
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
Week 3: !HTML VS CSS						
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
Week 4: lASP.net programming, Validation web form						
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 Programmig validation and others	presentation PDF customized				
4.3	ASP.net Programmig validation video	Video presentation PDF				
4.4	Project Valid2	Valid1 and 2				9/22/2024
Week 5: Mapping, sessions dopdown						
5.1	sessions,sitemap Presentation	**presentation customized**				
5.2	video sessions,sitemap Presentation	**Video**				
5.3	Project Dropdown	Project				**9/29/2024**
5.4	Test1	Test				**9/29/2024**
Unit 2. Navigation, Site Mapping						
1.0	Unit 2 Goals					
	Unit 2 Discussion					
Week 6: Server Control, Cookies and URL encoding						
6.1	State, Cookie presentation	presentation PDF customized		strong table, artificial key, subtype table, weak table		
6.2	video Sever control State, Cookie presentation	Video				
6.3	Project Site map	Project				**10/12/2024**
Week 7: Master Page						
7.1	Master Page	presentation PDF customized				
7.1	Video Master Page	Video				
7.2	Test 2	test				**10/13/2024**
Week 8: Test and assign Accessibility						
8.1	Zybook accessibility practice					10/19/2024
8.1	Zybook accessibility challenge					10/19/2024
8.2	Test					10/27/2024
Week 9: MVC						
9.1	MVC Presentation	presentation Customized	24			
9.1	Video MVC Presentation	Video				
9.2	Project Masterapge					11/2/2024
Week 10: Database						
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
Unit 3. MVC and DB						
3.1	Unit 3 Goals					
	Unit 3 Discussion					
Week 11: DB .Net Tools						
11.1	Sql Presentation	presentation customized				
11.2						
Week 12: Grid and Form View Controls						
12.1	Grid and Form presenttions	presentation customized				
12.2	Final Project					12/1/2024
Week 13: Deployment and Mobile						
13.1	Presentation	presentation Customized				
13.2	Zybook mobile practice and challenge					12/4/2024
Week 14: API and Contents control						
14.1	API Presentation	reading				
14.2	Zybook Api practice and challenge					12/5/2024
14.4	Ajax presentation	reading				
Week 15: Final testing						
15.2	Final Test					12/11/2024