

MET CS602: Syllabus

Overview of CS602: Server-side Web

Development

This class focuses on PHP, NodeJS with both MySQL and MongoDB. Students should bring their laptops to every class for the hands-on laboratories and practice.

Instructor

<u>asheehan@bu.edu</u> Office hours are by appointment. Please reserve and time and place with me.

Classroom Location

"CAS" - College of Arts and Sciences 725 Commonwealth Avenue, Room 214, Brookline, MA 02446

Required eBooks

• NodeJS Notes For Professionals (Free PDF/online)

https://medium.com/easyread/e-book-node-js-notes-for-professionals-book-e13db79d7b08

• Murach's PHP and MySQL (3rd Edition)

by Joel Murach and Ray Harris

ISBN 978-1-943872-38-1

https://www.murach.com/shop-books/web-development-books/murach-s-php-and-mysql-3rdedition-detail

• Practical Node.js - Building Real-World Scalable Web Apps.

by Azat Mardan

978-1-4842-3039-8 https://www.apress.com/us/book/9781484230381

Course Policies

- Homework will not be accepted after its due date.
- If you do not participate in class (or do not show up or come), you probably will not succeed in the exams, as they are challenging.

Grading Policies

- Homework/Laboratories: 25%
- Midterm Examination: 25%
- Term Project: 25%
- Final Examination: 25%

Schedule

Week	Topics	Readings
1	Course Introduction, ES6 Review	
2	Syntax, Data and Control Structures	 Mardan. Ch. 1 Murach. Ch. 1,8
3	Request Processing (Routing)	Mardan. Ch. 2Murach. Ch. 2,12
4	Session Handling, MVC Frameworks and Template Engines	 Mardan. Ch. 4 Murach. Ch. 5
5	File I/O, Streams	 Mardan. Ch. 1 Murach. Ch. 23

pring Progk (No Classos)	Midterm Examination	
Spring Break (No Classes)		
elational Databases MySQL)	 Murach. Ch. 18,19,20,23 MySQL with NodeJS 	
loSQL Databases MongoDB)	 Mardan. Ch. 7 <u>PHP Manual</u> <u>MongoClient</u> <u>More Examples</u> 	
ecurity and Authentication	 Murach. Ch. 21 Mardan. Ch. 6 	
ockets	 Mardan, Chapter 9 <u>PHP.net</u> <u>Ratchet</u> 	
Veb Services	 <u>https://www.techiediaries.com/php-rest-api/</u> Mardan, Chapter 8 Free NodeJS PDF: Chapter 30 	
Course Review		
erm Project Presentations		
Final Examination		
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