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MMED-3040-F2023

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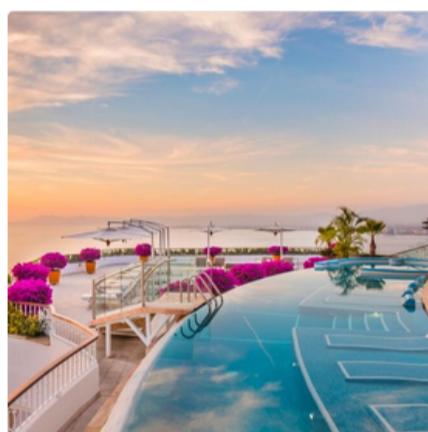


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## M M E D - 3 0 4 0

### COURSE DESCRIPTION

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A continuation of both the Authoring and Internet topics introduced in the first year, this course will extend students' skills with current tools for developing dynamic, database-driven applications for the World Wide Web. This involves an introduction to database structures using MySQL, the use of PHP to control and display database information, and more detailed work with dynamic Web content.

### COURSE LEARNING OUTCOMES

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Upon successful completion of this course, you will be able to reliably demonstrate the following Course Learning Outcomes, which will be taught and evaluated:

- 1.) Demonstrate an understanding of structures for dynamic, multimedia-rich websites
- 2.) Demonstrate an understanding of database structure, terminology, and development
- 3.) Develop a functional database using MySQL
- 4.) Demonstrates an understanding of data types and indexing structures in MySQL databases
- 5.) Develop PHP scripts that read and process MySQL databases
- 6.) Demonstrate an understanding of testing server setup and use

### GRADE BREAKDOWN

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Bootcamp - 15%

Homework Assignments (4) - 40%

Midterm (Portfolio Week) - 15%

Final Integrated Project (FIP) - 30%

\*Bootcamp and Hackathon briefs will be in an external document

## COURSE BREAKDOWN

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### WEEK 1 \*

- Orientation and Bootcamp(due Sunday @6pm)

### WEEK 2 \*

- Course Intro
- Required software - VSC & MAMP | Mac / MAMP | Windows (Module 2)
- Course Breakdown
- Dynamic Content - LAMP Stack Overview

### WEEK 3

- CSS Grid Review
  - Grid Techniques and Advanced Features
  - Optimizing our Grid
  - Homework #1 - Portfolio Scaffold Assigned

### WEEK 4

- Introduction to databases

### WEEK 5

- Working with MAMP/PHPMYADMIN
- Creating a database shell
- Creating tables & columns
- Working with & assigning data types
- Adding content
- Exporting and importing databases
- Creating complex databases and forming relationships

## WEEK 6

- Hackathon

## WEEK 7

- Working with SQL
- Retrieving data from single table

## WEEK 8

- SQL Syntax continued
- Retrieving data from single & multiple tables

## WEEK 9

- Retrieving data from single & multiple tables continued
- SQL Lab

## WEEK 10

- PHP Intro

## WEEK 11

- PHP cont. Variables, Functions & Other Structures

## WEEK 12

- PHP Form Validation
- PHP & mySQL Databases

## WEEK 13

- PHP & mySQL Databases cont.

## WEEK 14

- Open lab

## WEEK 15

- Presentations

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## ADDITIONAL LEARNING MATERIALS

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[MYSQL Essential Training](#)

[SQL Essential Training](#)

[SQL For Non-Programmers](#)

LinkedIn Learning is available for free through <https://fcsw2.fanshawec.ca/portal/index.htm>. Look for LinkedIn Learning under My Bookmarks and Campus Links on the right side of the page. You will be prompted to log in, using your FOL login credentials to access LinkedIn Learning. You will need to log in first before you can click or copy and paste the above links.

# HOMEWORK BRIEFS

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## HOMEWORK #1 – INTERACTIVE PRODUCT PAGE



In this exciting cross-disciplinary project, you will be designing, developing, and promoting a unique, innovative pair of earbuds and their charging case. Your task will be to create a single-page, responsive promotional website for these products, and you will be doing so with a mobile-first approach, ensuring that your design works seamlessly across various devices.

Not only will you be designing and developing the website, but you will also be creating all the visual assets for this project in your 3D modelling class. You'll use Cinema 4D to model, texture, light, and animate your earbud designs. These will include various colour variations of the earbuds, an X-ray view showcasing the internal components, promotional images or animations, and an augmented reality (AR) object for interactive use on the site.

The website you create should include the following components:

Navigation: To facilitate easy user navigation.

Product Showcase: A section dedicated to showcasing the earbuds and their features, utilizing the 3D assets you create.

Associated Copy: Descriptive and persuasive text that explains the features and benefits of the earbuds.

Contact Form: A simple form where potential customers can send inquiries or feedback.

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You will also be working on integrating the AR object you create into the website as part of your Authoring class. This will provide an interactive experience for users and make your product more engaging.

This project will be an individual assignment, allowing you to showcase your creativity, technical skills, and ability to work across different disciplines.

You will have five weeks to complete this project. This timeline will allow you to plan, design, develop, and refine your website while also creating the 3D assets needed.

Remember, this is not just about creating a website or a pair of earbuds - it's about bringing a product to life and telling its story through engaging interactive experiences.

## SUBMISSION REQUIREMENTS & DUE DATE

Submit your repo link with proper naming conventions (Lastname\_Firstname\_Assignmentname.zip) to the FOL's Submissions Dropbox.

eg. Brunner\_Justin\_hw2.zip \* Rar files will not be accepted.

**Due Week 5 beginning of class in the HW2 FOL Dropbox - (10% of final grade)**

## GRADING RUBRIC /100

Following Direction /10

Proper use of GIT /15

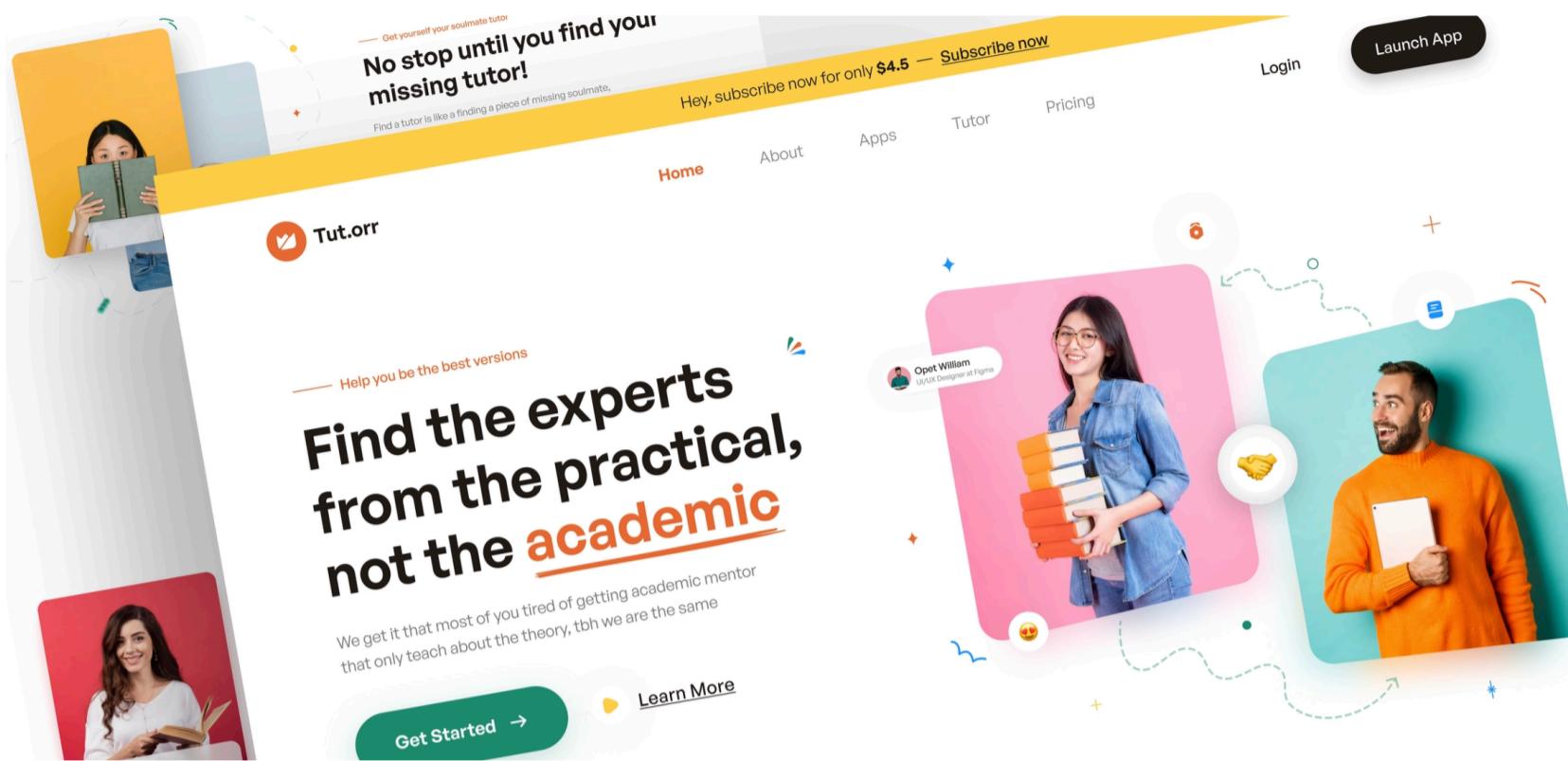
HTML/CSS Structure & Validation: /10

Document Outline: /20

Responsiveness: /15

Content: /30

# HOMEWORK #2 – PORTFOLIO DATABASE



We will develop a database in class with a standard set of content tables that would be appropriate for a portfolio site. Each student will customize the class build, and add content representative of their portfolio plan in terms of content and functionality. All structural properties (naming, indexes, data types, etc.) covered in class must be in place.

## SUBMISSION REQUIREMENTS & DUE DATE

Submit your zip file with proper naming conventions (Lastname\_Firstname\_Assignmentname.zip) to the FOL's Submissions Dropbox.

Due Week 5 by end of class in the Lab #1 FOL Dropbox - (10% of final grade)

## GRADING RUBRIC /100

Following Direction /10

Appropriate number and type of tables /20

Proper table and field naming /20

Proper structure of tables and fields /20

Appropriate project content inserted /20

Working SQL file created /10

## HOMEWORK #3 – PHP DYNAMIC CONTENT PAGE

```
SELECT c.CustomerID, p.FirstName + ' ' + p.LastName AS CustomerName  
a.AddressLine1, a.City, sp.Name AS StateProvince, a.PostalCode,  
o.SalesOrderID, o.OrderDate  
  
FROM Sales.Customer c  
INNER JOIN Person.Person p ON c.PersonID = p.BusinessEntityID  
INNER JOIN Person.BusinessEntityAddress bea ON p.BusinessEntityID =  
INNER JOIN Person.Address a ON bea.AddressID = a.AddressID  
INNER JOIN Person.StateProvince sp ON a.StateProvinceID = sp.StateP  
INNER JOIN Sales.SalesOrderHeader o ON c.CustomerID = o.CustomerID
```

Using the provided sample database, create a single PHP page that contains both static and dynamic content, connecting to the database, querying the data represented in the database to bring it onto the page in an appropriate fashion. All content should have CSS styling applied.

### SUBMISSION REQUIREMENTS & DUE DATE

Submit your zip file with proper naming conventions (Lastname\_Firstname\_Assignmentname.txt) to the FOL's Submissions Dropbox.

Due Week 10 by the end of class in the Lab #2 FOL Dropbox - (10% of final grade)

### GRADING RUBRIC /100

Following Direction /10

PHP database connection /15

Querying /30

Appropriate HTML items created dynamically (lists, etc.) /25

CSS styling /20

## **HOMEWORK #4 – PHP FORM SCRIPT**

```
SELECT c.CustomerID, p.FirstName + ' ' + p.LastName AS CustomerName  
a.AddressLine1, a.City, sp.Name AS StateProvince, a.PostalCode,  
o.SalesOrderID, o.OrderDate  
  
FROM Sales.Customer c  
INNER JOIN Person.Person p ON c.PersonID = p.BusinessEntityID  
INNER JOIN Person.BusinessEntityAddress bea ON p.BusinessEntityID =  
INNER JOIN Person.Address a ON bea.AddressID = a.AddressID  
INNER JOIN Person.StateProvince sp ON a.StateProvinceID = sp.StateP  
INNER JOIN Sales.SalesOrderHeader o ON c.CustomerID = o.CustomerID
```

Each student will create (and minimally style) a contact form with the fields specified in class. Based on PHP Form processing covered during class, you will create a PHP script file to process and validate your custom form on the localhost server.

### **SUBMISSION REQUIREMENTS & DUE DATE**

Submit your zip file with proper naming conventions (Lastname\_Firstname\_Assignmentname.txt) to the FOL's Submissions Dropbox.

Due Week 12 by the end of class in the Lab #2 FOL Dropbox - (10% of final grade)

### **GRADING RUBRIC /100**

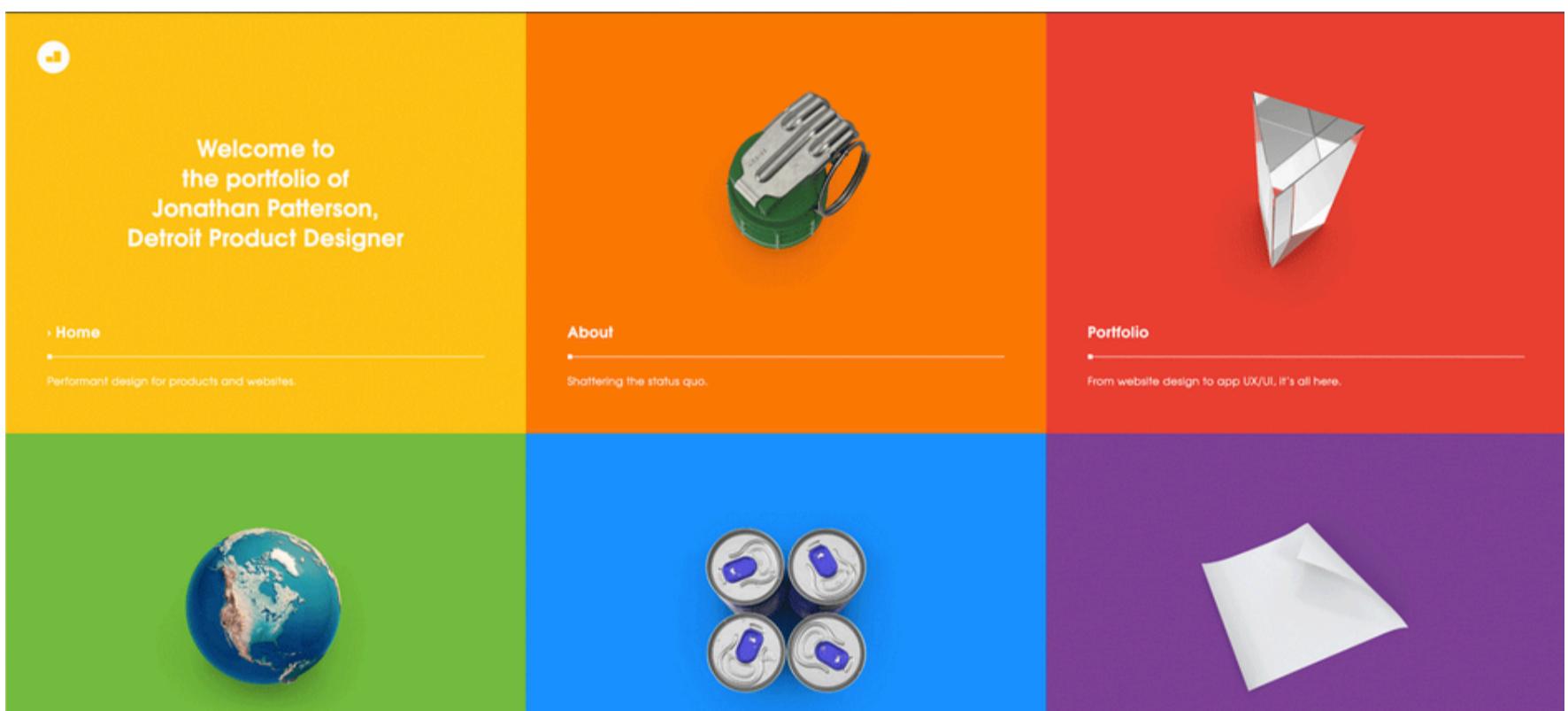
Following Direction /10

Proper Form Structure /20

PHP POST code /30

PHP Form Validation /40

## FIP - PORTFOLIO REQUIREMENT



The portfolio site you develop this term is ultimately what you will use to present your work and your skillset (as designers and/or developers) to potential clients and employers. As such, the design and presentation of that design is up to you entirely, within the technical parameters listed below. Your final portfolio site will incorporate your logo and build upon the interface/ branding designs you develop in Electronic Image and Production.

Even though the design and technical aspects of the site will develop and change over your last term, this site should represent the basis of the site that you will have as your final portfolio.

Your responsive site must be presentable within your localhost WAMP/MAMP Server.

### ASSIGNMENT REQUIREMENTS

The site's 'look and feel' needs to be consistent with the branding approach developed in your Electronic Image Production class. Hence, your web presence is consistent with your style guide and personal identity to create a professional-looking brand and website appearance for potential employers to review.

## DELIVERABLES

- Repo link to the master branch

## SUBMISSION REQUIREMENTS & DUE DATE

Repo Link

Due Week 14 - December 10th @ 5pm in the FIP FOL Dropbox - (30% of final grade)

Late Delivery @ 7pm - 30% Reduction

## GRADING RUBRIC /100

Presentation: /17

Proper use of GIT /15

HTML/CSS Structure & Validation: /15

Document Outline: /20

Content: /33

Total: 100 marks (30% of final term grade)

## GRADE BREAKDOWN

The following grading criteria are being assessed based on the assignment requirements.

If there are any questions or concerns with any part of the rubric or the requirements of the assignment, please email me or address these concerns in class.

## GRADE VALUE

A panel of professors will grade you during your scheduled presentation time, and you must have a hosted website with everything required for this project to be graded. In class, additional information will be given; you are encouraged and expected to ask questions. If you are absent, you must check with other students.

Your grade will be averaged across all of your four IDP courses.