



COURSE OUTLINE : CS/IS 261
D Credit – Degree Applicable
COURSE ID 005230
Cyclical Review: September 2020

COURSE DISCIPLINE : CS/IS
COURSE NUMBER : 261
COURSE TITLE (FULL) : Web Development with PHP and MySQL
COURSE TITLE (SHORT) : Web Development

CATALOG DESCRIPTION

CS/IS 261 provides students with training and experience in developing and managing an Internet Web server for business. Students will use an Apache Web Server, create and use MySQL database tables, and program in the PHP (PHP Hypertext Preprocessor) Web programming language to create interactive Web sites. Students will also manage their own Web servers to accomplish their course objectives.

CATALOG NOTES

Note: Having the ability to type at least 20 wpm is strongly recommended.

Total Lecture Units: 3.00

Total Laboratory Units: 0.00

Total Course Units: 3.00

Total Lecture Hours: 54.00

Total Laboratory Hours: 0.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 54.00

Total Out-of-Class Hours: 108.00

Recommended Preparation: CS/IS 260 or equivalent.



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ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1	CS/IS	260	Introduction To Web Site Development	Use document development techniques such as HTML (HyperText Markup Language) and CSS (Cascading Style Sheets);	No
2	CS/IS	260	Introduction To Web Site Development	organize and upload Web-specific files to a server;	Yes
3	CS/IS	260	Introduction To Web Site Development	explain how JavaScript integrates with Web documents;	No
4	CS/IS	260	Introduction To Web Site Development	use SEO (Search Engine Optimization) techniques to improve search engine visibility.	No

EXIT STANDARDS

- 1 Create databases and tables in an SQL (Structured Query Language) database;
- 2 explain how PHP (PHP Hypertext Preprocessor) makes interactive web pages;
- 3 code simple PHP programs;
- 4 test interactive Web pages.

STUDENT LEARNING OUTCOMES

- 1 create and manage a web server;
- 2 explain the role of a database and other tools in a web server;
- 3 describe interactive Web pages and how they help create a Web server

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	Installation of Software <ul style="list-style-type: none"> • MySQL • The Apache Web server • PHP and the Zend engine 	10	0	10



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2	<p>Introduction to coding in PHP</p> <ul style="list-style-type: none"> • Integrating PHP with HTML • Variables and operators • Displaying dynamic content • Sending automated e-mail 	10	0	10
3	<p>Working with Files</p> <ul style="list-style-type: none"> • Transmitting files to a Web server • Creating text files • Writing to existing text files • Opening and reading from existing text files • Copying, renaming, and deleting files 	8	0	8
4	<p>Integrating MySQL with PHP</p> <ul style="list-style-type: none"> • MySQL basics • Creating database tables using PHP • Inserting data into a table using HTML forms • Selecting and displaying data 	8	0	8
5	<p>User Authentication and Tracking</p> <ul style="list-style-type: none"> • Creating and maintaining user tables • Password authentication • Using cookies • Session basics 	8	0	8
6	<p>Building Applications</p> <ul style="list-style-type: none"> • Record creation • Record selection and modification • Record deletion • Reporting 	10	0	10
				54



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OUT OF CLASS ASSIGNMENTS

- 1 projects (e.g. create a series of PHP enabled Web pages which create, update, and delete records in a MySQL table);
- 2 PHP and MySQL coding assignments.

METHODS OF EVALUATION

- 1 projects;
- 2 midterm examination;
- 3 final examination.

METHODS OF INSTRUCTION

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration
- Field Activities (Trips)
- Guest Speakers
- Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	ISBN	Date
Murach's PHP and MySQL: training & reference	Required	Mike Murach and Associates	3	print	Murach, Joel	978-1943872381	2017