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| **ELEMENT** | **CONTENT** |
| DEPARTMENT | CIS |
| AUTHOR (S) | Joan Spasyk, Jean Hakim |
| COURSE NUMBER | **CIS 1152** |
| COURSE TITLE | **Advanced Web Design** |
| SHORT TITLE | Adv Web Design |
| COURSE LEVEL | 1000 |
| DATE CREATED |  |
| CHECKED/CHANGED | 4/10/2017 |
| PREREQUISITES | CIS 1151 |
| COREQUISITES |  |
| RESTRICTIONS |  |
| SPECIAL FEES | No |
| CREDITS | 3 |
| HOURS | 2 hours of lecture, 2 hours of lab per week |
| SEMESTER | Fall |
| COURSE DESCRIPTION | This course teaches the student how to implement, monitor, and deploy a complete website and integrate the website with a database. The emphasis is on the PHP language and server side processing. JavaScript is used when it is suited to the desired task. Topics include authentication methods; form processing; form validation using HTML 5, JavaScript, and PHP; an overview of databases; PHP functions to interface with a database; and website security. |
| SUGGESTED TEXTS | *PHP and MySQL Web Development*; Luke Welling, Laura Thomson, & Addison Wesley |
| OPTIONAL TEXTS |  |
| COURSE OUTCOMES | The successful student will be able to:   1. Design, deploy, and manage a complete website 2. Implement a complete website using PHP, HTML 5, and CSS 3. Create and manage a MySQL database 4. Integrate a MySQL database with a web application |
| COURSE CONTENT | 1. Introduction to XAMPP/PHP 2. Arrays and loops 3. Forms 4. Strings 5. Functions 6. Introduction to MySQL 7. Sessions and cookies 8. SQL commands 9. PHP-email connections 10. Security 11. Shopping cart implementation 12. Web apps 13. Web security 14. Projects |
| LAB/STUDIO OUTCOMES |  |
| LAB/STUDIO CONTENT | 1. Introduction to XAMPP/PHP 2. Arrays and loops 3. Arrays and web forms 4. Form field validation 5. Visitor counter 6. Slideshows 7. Email 8. Redirection 9. Calendar 10. Databases and tables 11. Authentication 12. Authentication integration 13. Sticky forms 14. Final project |
| LECTURE CAPACITY | 32 |
| LAB CAPACITY | 16 |
| GRADED OR P/NP | Graded |
| EVALUATION | Attendance, exams, written assignments, project |
| DELIVERY METHOD | LEC |
| ROOM REQUIREMENTS | Computer lab |
| AUTHOR’S NOTES |  |