



**DOUGLAS COLLEGE**  
COMMERCE AND BUSINESS ADMINISTRATION  
CSIS3280-003 – **WEB BASED SCRIPTING**

Semester	Fall 2021	Lecture/Lab	Fri.	12:30-15:20	Online
Instructor	Saeed Mirjalili	Office Hours	Tue.	11:30-12:20	Online
Email	<a href="mailto:mirjalilis@douglascollege.ca">mirjalilis@douglascollege.ca</a>	Office Hours	Fri.	11:30-12:20	Online

## DESCRIPTION

This course will introduce students to server-side scripting using popular scripting tools such as Perl or PHP. Emphasis will be placed on training students in applying scripting techniques to build and administer database driven dynamic web content and e-commerce solutions in an Apache web hosting environment.

## METHOD OF INSTRUCTION

Note:

- In addition to the regularly scheduled classes and labs, students are expected to spend **at least 6 hours a week** out of class on this course.
- This course may involve group work.

## TEXTBOOKS/MATERIALS

- **Textbook:** David Sklar, (2016), *Learning PHP, A Gentle Introduction to the Web's Most Popular Language*, O'Reilly, 1491933577
- **Software:** Visual Studio Code, WAMP Server, Blackboard Learning System
- **A USB drive** will be useful
- **Personal Computer** at home is highly recommended



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**LEARNING OUTCOMES**

At the end of this course, the successful students will be able to:

- 1) explain the design trade off and portability issues on different web-based server-side architecture and technologies;
- 2) administer and configure Apache web servers using PERL or PHP scripting language.
- 3) write Common Gateway Interface (CGI) program using PERL or PHP scripting language.
- 4) extend web server functionality using PERL or PHP scripting language.
- 5) build database driven dynamic web content using server-based DBMS technology;
- 6) implement e-commerce features using PERL or PHP scripting language.

**COURSE CONTENT**

- 1) Introduction to web application architectures and server technologies
- 2) Introduction to basic PERL or PHP scripting language (data type, variables, syntax & development environments)
- 3) Basics of CGI programming
- 4) Working with forms, patterns, files and associative array
- 5) Text processing and regular expression
- 6) Manipulating files and directories
- 7) Persistent state mechanism and shopping cart
- 8) Extending server-side functionality with additional email, ftp and other server technologies
- 9) Object-orientation in scripting language
- 10) Manipulating MySQL / MSSQL database server
- 11) Implementing user authentication with MySQL or MSSQL server
- 12) Implementing secure transaction with MySQL or MSSQL server



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## REGULATIONS FOR STUDENTS

### Communication with Your Instructor

- You can send an email to your instructor and ask for help on any subject that your instructor can help you
- Use your college email account. Emails from free email services (e.g., Gmail, Hotmail, etc.) might not be answered.
- Include your Course and Section number in the subject line of your email. E.g., CSIS1175 Section ##.

### Assignment Due Dates

- Every assignment due date will be announced on Blackboard.
- Late assignments are accepted, with penalty, up to 24 hours after the due time. There is 2% penalty for every hour late submission. After 24 hours the folder will be closed automatically, and you cannot submit it. Do not send your work by email.
- Students are requested to keep extra copies (i.e. file backups) of their assignments in case of any possible errors by the instructor/Network/Blackboard.

### Quizzes and Examinations

- Will be held according to the schedule.
- The missed exams will be assigned a mark of zero. Very special cases might be considered provided there are verifiable documents.

### Rules and Regulations for Tests/Exam

- Phone must be switched off and placed on top of the table face up.
- Communication and exchange of information with others are not allowed.
- There are more rules specific to each exam that will be announced prior to the exam.
- Violation of the above rules and regulations will result in a mark of "0" and will be asked to leave the test/exam venue immediately. Incident will be reported to the department.

### Preparation, Attendance and Participation

- Students are encouraged to participate and learn.
- Attendance will be checked on a frequent but irregular basis.
- Some important dates/requirements/changes may be announced during a lecture/lab. Students must ensure they are informed whether present in the class or not.
- While in class, please avoid any source of distraction:
  - turn off (or do not bring) your cell phone.
  - do not use the computer/ internet other than for educational purposes related to the lecture/lab
  - do not bring food or beverages with strong smell
  - do not chat with the student next to you.

### Academic Integrity

- The College values academic integrity.
- Plagiarism is presenting or submitting as one's own work, research, words, ideas, artistic imagery, arguments, calculations, illustrations or diagrams of another person or persons without explicit or accurate citation or credit; this includes submission of purchased material as well as material in which the student has permitted someone else (a fellow student, tutor, mentor or teaching assistant, friend, etc.) to contribute unacknowledged.
- Self-plagiarism is submitting one's own work for credit in more than one course without the permission of the instructors, or re-submitting work, in whole or in part, for which credit has already been granted.
- Cheating is the possession or provision of unauthorized aids, assistance or materials in the preparation of assignments, during examinations or in the completion of practical work (in clinical, practicum or lab settings).
- See the [Academic Integrity policy](#) for other definitions of academic dishonesty.



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- Academic dishonesty will be treated as a serious offence. Discipline can range from a zero grade on the exam or assignment in which the offence occurred to suspension or expulsion from the College.
- **NOTE:** It is your responsibility to protect your work and not to provide it to others.
- Students can collaborate and help each other, but if a student provides his/her own work to another student to be copied, all parties involved in this act are penalized. In these situations, all parties are invited to an interview with the instructor and their answers to questions determine if it has been a help that resulted in learning or just copying the work for sole purpose of gaining marks.

### **Student Effort**

In addition to the regularly scheduled classes and labs, students are expected to spend **at least 6 hours a week** out of class on this course. If you find yourself regularly spending time significantly in excess of this, come and discuss this as soon as possible.

### **Class Cancellation**

If a class is cancelled due to instructor illness or other unforeseen circumstance, a notification will be made through Blackboard. It is the responsibility of students to be proactive and to check their announcements and/or e-mail before coming to class. Every effort will be made to ensure that the notification is made as soon as possible.



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**MEANS OF ASSESSMENT**

Assignments	20%	To be done outside the classroom, an opportunity to practice skills taught in the class
Midterm Exam	30%	Given near the middle of the term to verify the skills learnt from the beginning to that date
Final Exam	30%	A cumulative exam that verifies all the skills taught over the semester.
Quizzes	20%	4 quizzes (4 x 5%)
Total	100%	

Letter Grading Scheme is based on [Douglas College Grading Policy](#).

To pass the course, students must, in addition to receiving an overall course grade of 50%, also achieve a grade of **at least 50% on the combined weighted examination components** (i.e., quizzes, tests, and exams).

A student **MUST** complete at least 71% of all the evaluations for this course to obtain credits; otherwise, he/she **will be assigned a final grade of UN**.



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**COURSE SCHEDULE**

Date	Topic
Sept. 10	Orientation Intro. To PHP
Sept. 17	Functions, Arrays
Sept. 24	HTML Forms, Date and Time
Oct. 1	QUIZ 1
	File Operations, File Uploads, Exception Handling
Oct. 8	Object Oriented PHP
Oct. 15	QUIZ 2
	Advanced Object-Oriented PHP
Oct. 22	Designing Web Databases, SQL
Oct. 29	MIDTERM EXAM
Nov. 5	PDO - PHP Data Objects, CRUD Operations with PDO
Nov. 12	Authentication, Authorization Sessions
Nov. 19	QUIZ 3
	Web Services using the REST Working with JSON
Nov. 26	Web Services using the REST Working with JSON
Dec. 3	QUIZ 4
	Working with Frameworks - an Introduction to Laravel
Final Exam Week (Check the final exam schedule for potential scheduling conflicts) Comprehensive exam	

**Note** that the exact course content and schedule of topics shown above may be altered at the instructor's discretion.

*Wish you all the best for this course and this semester*