

COMP2084G – Server-Side Scripting using ASP.NET

Course Syllabus

Course Description:

Students implement Microsoft's ASP.NET platform to design and create web sites that can Create, Read, Update, and Delete (CRUD) data from a database. Students use Web concepts, Object-Oriented Programming (OOP), relational database principles, and other server-side scripting to create web-based, data-driven applications.

This course has a pre-requisite of COMP1006G – Introduction to Web Programming using PHP.

Faculty Information:

Rich Freeman Office: N211H or <https://georgiancollege.webex.com/join/rich.freeman>

Phone: 705.728.1968 x1941 (office)

Email: rich.freeman@georgiancollege.ca

Office Hours: Tue / Thu 12 pm – 1 pm (or by appt). Please book at

<https://calendly.com/rich-freeman/15min>

Course Learning Outcomes:

Upon successful completion of this course, the student will have reliably demonstrated the ability to:

- apply Microsoft server-side scripting technologies and techniques to the development of web applications;
- implement CRUD functionality through the application of server-side scripting;
- devise an authentication method and manage a user session;
- create new objects from classes, using properties, methods and events;
- write advanced scripts which run directly on the server to generate dynamic content;
- integrate Unit Testing to ensure coding accuracy.

Program information is on the *Desire to Learn (D2L)* Lakehead University-Georgian College partnership course shell. Students are encouraged to review the program information.

Class Schedule:

Lecture Thursdays, 8 am – 10:50 am

Class Locations In-Class Weeks: K218

Online Weeks: <https://georgiancollege.webex.com/meet/rich.freeman>

No classes on: Monday, Oct. 24 to Friday, Oct. 28, 2022 (Study Week)

Exam Period runs Thursday, Dec. 8, 2022 to Sunday Dec. 18, 2022 (includes two Sundays) with Monday Dec. 19, 2022 as a contingency date. This course will have an assigned time period for an exam. Further details to be released.

Evaluation/List of Assessments:

This course is composed of tests, assignments and lab reports. Grading criteria will be provided with each assignment's instructions.

Tests – see Sequence of Topics for due dates <ul style="list-style-type: none">• Quizzes (8x 2.5% = 20%)• Mid-Term Exam (10%)• Final Exam (25%)<ul style="list-style-type: none">○ Scheduled during exam period○ Addresses entire course	55%
Assignments/Reports - see Sequence of Topics for due dates <ul style="list-style-type: none">• Labs (4x 2.5% = 10%)• Assignment 1 (5%)• Assignment 2 (15%)• Assignment 3 (10%)• Assignment 4 (5%)	45%
Total	100%

- QUIZZES: Completed weekly by Wednesday at 11:59 pm online based on previous week's class material
- LABS: Small learning activities to be done synchronously or asynchronously as part of weekly lessons. Due Wednesdays at 11:59 pm before next class.
- ASSIGNMENT 1: Project Proposal
- ASSIGNMENT 2: CRUD Application
- ASSIGNMENT 3: Authentication
- ASSIGNMENT 4: Unit Testing

Course Resources:

- Microsoft Visual Studio 2022
- Git & GitHub
- SQL Server & Management Studio
- Azure Cloud Service

Sequence of Topics:

This is a tentative schedule of topics and is subject to change. The faculty reserves the right to change/alter the schedule of topics from time to time.

Week/Date	Key Topics	Location	Assignments/Tests
One Sep 5-9	• Intro to ASP.NET	K218	
Two Sep 12-16	• Controllers	K218	
Three Sep 19-Sep 23	• Views	K218	• Assignment 1 (5%)
Four Sep 26-30	• Models	K218	
Five Oct 3-7	• Data Annotations / Scaffold Customizations	WebEx	
Six Oct 10-14	• REST API	WebEx	• Assignment 2 (15%)
Seven Oct 17-21	• Mid-Term Exam	K218	• Mid-Term Exam (10%)
OCT 24-28: STUDY WEEK – NO CLASS			
Eight Oct 31-Nov 4	• Authentication I	K218	
Nine Nov 7-11	• Authentication II	WebEx	
Ten Nov 14-18	• Shopping Cart I	K218	• Assignment 3 (10%)
Eleven Nov 21-25	• Shopping Cart II	WebEx	
Twelve Nov 29-Dec 3	• Unit Testing	K218	
Extra Dec 5-6			• Assignment 4 (5%)
Exam Period Dec 8-18		Day, time and location TBD	• Final Exam (25%)

Final day of classes (Lakehead-Georgian Academic Schedule) is Tuesday, Dec. 6, 2022.

Expectations for Successful Participation:

1. If possible, attend every class. You can get your questions answered immediately and learn from and help your classmates.
2. Check D2L regularly for announcements, learning materials, work assignments and course updates.
3. Ask questions if you need clarification via email. Email will receive a speedier response to questions than leaving a voicemail message. Please ensure that you “sign” your email with your name and course number. Monday to Friday emails will receive responses within 24 hours. Emails received over the weekend (after 4 pm Friday) will receive responses on Monday.
4. Keep up with your course work. Complete all assigned work so that you complete the next week’s lesson. **There are no makeup assignments offered in this course.**

5. Submit your assignments by the deadline! You are strongly advised not to wait until the last minute to submit your assignments in case you have computer problems or need help.

Academic and Student Code of Conduct Policies:

Academic and student policies and procedures for those enrolled in the Lakehead-Georgian programs can be found on the Lakehead-Georgian D2L.

All Lakehead-Georgian programs will follow the Lakehead Regulations as list in the Lakehead University [Academic Calendar](#)

(<http://csdc.lakeheadu.ca/Catalog/ViewCatalog.aspx?pageid=viewcatalog&catalogid=24&chapterid=6347&loaduserredits=False>). The University Regulations include but are not limited to Registration, Examinations, Reappraisals and Academic Appeals, Special Examinations, Academic Misconduct, Withdraw, and Timely Feedback. Additional Faculty Regulations may also apply. Please review the Academic Calendar.

The Lakehead University [Code of Student Behaviour and Disciplinary Procedures](#) as applied to Academic Misconduct will apply to all Lakehead-Georgian students regardless of campus of study (<https://www.lakeheadu.ca/faculty-and-staff/policies/student-related/code-of-student-behaviour-and-disciplinary-procedures>).

The Georgian College [Student Code of Conduct](#) will apply to the Lakehead-Georgian students studying at the Barrie campus (<http://www.georgiancollege.ca/student-code-of-conduct/>). Additional campus policies of [Sexual Violence Procedure and Protocol](#) (<http://www.georgiancollege.ca/wp-content/uploads/GeorgianSexualViolenceProcedureMarch31final.pdf>) and [Information Technology Acceptable Use Procedure](#) (<http://www.georgiancollege.ca/wp-content/uploads/2-117IT-acceptable-use.pdf>) also apply.

The Lakehead University [Code of Student Behaviour and Disciplinary Procedures](#) as applied to Non-Academic Misconduct will apply to the Lakehead-Georgian students studying at the Orillia campus (<https://www.lakeheadu.ca/faculty-and-staff/policies/student-related/code-of-student-behaviour-and-disciplinary-procedures>).

Plagiarism:

Plagiarism and academic dishonesty: Plagiarism is an extremely serious academic offence and carries penalties varying from failure in an assignment to debarment from the University. As noted in the University Calendar ([University Regulation IX Academic Misconduct](#)): (<http://csdc.lakeheadu.ca/Catalog/ViewCatalog.aspx?pageid=viewcatalog&catalogid=24&chapterid=6364&loaduserredits=False>)

Course Policies:

An overall grade of 50% is required to achieve a passing grade for the course.

All assignments are planned and schedule to provide adequate completion time. Help is often available. Assignments must be submitted by 11:59 pm on their due dates. Late submissions will receive a grade

reduction of 20% per calendar day past the due date. Requests for adjustments can be made, but should be done at least one week in advance and must be approved by the instructor. Failure to do so will result in a mark of zero unless an illness / emergency can be proven with appropriate documentation at no cost to the College.

Unless, otherwise specified, all work must be your own individual work. Make sure you understand the academic policies and procedures as detailed above. Pay special attention to warnings about cheating, plagiarism, and acceptable use of computer resources. Work is checked thoroughly for authenticity in this course and may also be subject to a code review at the instructor's discretion. Code reviews at the instructor's discretion may be conducted, with web cameras and microphones enabled at all times by both the student and instructor.

Additional Information:

Who to Contact:

Student Advising (non-academic)		
Becca Allan Advisor, Accessibility and Academic Success Services		Tel: (705) 728-1968 Ext. 5373 Becca.Allan@GeorgianCollege.ca (Georgian, Barrie) Room A143L
Computer Science		
Lakehead University Department Chair and Professor	Dr. Vijay Mago	Tel: 1 (807) 343-8310 vmago@lakeheadu.ca (Lakehead, Thunder Bay) Room AT 5023
Georgian College Program Coordinator and Professor	Ross Bigelow	Tel: (705) 728-1968 Ext. 5325 Ross.Bigelow@GeorgianCollege.ca (Georgian, Barrie) Room N211A
Georgian College Program Assistant	Cheryl McWilliam	Tel: (705) 728-1968 Ext. 1255 Cheryl.McWilliam@GeorgianCollege.ca (Georgian, Barrie) D125

Student Services and Supports:

Student Advisors

(<https://georgiancollege.sharepoint.com/sites/student/Student-Services/StudentAdvisors/SitePages/Home.aspx>)

- Help students build both academic and personal resilience so that they can flourish at Georgian and beyond
- Provide individual, group and web-based advising sessions
- Are housed within the academic areas
- To book an appointment with your advisor go to the **Student Portal (preferred)** or call **705-728-1968 Ext. 1307**

Learning Centres:

- Our Centres include (drop-in, telephone, skype and 1:1 appointments)
- **Writing Support** (http://library.georgiancollege.ca/writing_centre)

- Get free help with your writing assignments!
- Create outlines for assignments and work on sentence structure and paragraph development
- Access resources to check your references (e.g. APA or MLA)
- **Math Support** (http://library.georgiancollege.ca/math_centre)
 - Get free help with math!
 - Make sense of math questions; Understand word problems; Work with formulae

Peer Tutors: (<http://library.georgiancollege.ca/tutoring>)

Available to all students to facilitate understanding of course content. To find out more about one-on-one tutors, make an appointment with the Peer Services Advisor.

Accessibility Services:

(<http://www.georgiancollege.ca/student-life/student-services/accessibility-services/>)

If you are a student experiencing a disability who may require academic accommodations and have not yet registered with Accessibility Services, please contact their office at (705) 722-1523 or visit their offices in B110. You must be registered with Accessibility Services to access academic accommodations. Support for those students whose success at college may be affected by a disability include:

- Ongoing support from our Accessibility Advisors including arranging a confidential psychoeducational assessment
- Training in the use of specialized computer technology
- Classroom and test accommodations

Library: (<http://library.georgiancollege.ca/main>)

- Assignment Help (find books, articles and websites on your topic)
- Computer Help (Microsoft Office Suite, Blackboard, Banner)

Testing Services:

(<http://www.georgiancollege.ca/student-life/student-services/testing/>)

- Accommodated testing
- Missed/Makeup testing
- Proctoring services are also available for external and Ontario Learn exams

Counselling:

(<http://www.georgiancollege.ca/student-life/student-services/counselling/>)

Free, confidential counseling is provided to all students by phone and/or office appointments

- Counselors are on call every day of the week for urgent needs or students can book an appointment

Career Success:

(<http://www.georgiancollege.ca/student-life/student-services/co-op-and-career-services/>)

Career assessments and exploring options

- Job search workshops
- Labour market information
- Resume/cover letter help
- Interview practice
- Graduate employment information
- Links to job postings and online resource

Campus Safety and Security Syllabus Addendum:

Emergency Evacuation:

- Evacuate buildings when a fire alarm is activated or an official announcement is given. Review [evacuation guidelines](http://www.georgiancollege.ca/about-georgian/campus-safety-and-security/fire-tab/).
(<http://www.georgiancollege.ca/about-georgian/campus-safety-and-security/fire-tab/>)
- Students requiring assistance in emergency situations must inform their faculty during the first week of class.
- Familiarize yourself with all fire exit doors of classrooms and buildings you may occupy.
- Do not re-enter a building until instructions are given by the Fire Department or college personnel.

Lockdown:

- Lockdown is initiated when there is a potential or actual violent incident on campus that could result in a serious injury or threat to life.
- **Students can download the new safe@georgian app to stay updated on Campus Safety and Security information including lockdown.**
- Familiarize yourself with the [College Lockdown procedure](http://www.georgiancollege.ca/wp-content/uploads/Lockdown.pdf) (pdf).
(<http://www.georgiancollege.ca/wp-content/uploads/Lockdown.pdf>)
- Lockdown tests occur each semester.

Resources:

- [Get Out, Hide, Fight Lockdown Video](http://youtu.be/JA8cckMbVDk) (<http://youtu.be/JA8cckMbVDk>)
- Lockdown Model – Get Out, Hide, Fight: [Lockdown Tools and Tactics and FAQs](http://www.georgiancollege.ca/about-georgian/campus-safety-and-security/lockdown--tab/).
(<http://www.georgiancollege.ca/about-georgian/campus-safety-and-security/lockdown--tab/>)

Unscheduled Campus Closure

(<https://www.georgiancollege.ca/about-georgian/campus-safety-services/tab/campus-closures>)

Resources:

- How to find out if your campus is closed
(<http://www.georgiancollege.ca/about-georgian/campus-safety-services/#how-to-find-out-if-your-campus-is-closed>)
- Unscheduled Campus Closure Procedure
(<https://www.georgiancollege.ca/wp-content/uploads/2-102Unscheduled-college-closure-2018.02.10.pdf>)

Timing of Closures/Notification:

Closure	Decision	Communication / Notification*	Notes
College has made the decision to close a campus or location <u>in the morning</u> :	6:00 a.m.	By 6:30 a.m.	If re-opening for noon or evening classes is being considered, this will be mentioned in the message
College closes a campus(s) in the morning and <u>expects to re-open by 12:00 noon</u>	9:30 a.m.	By 10:00 a.m.	Only affects classes beginning at 12 noon or later
Closure expected to continue <u>past 12:00 noon</u>	9:30 a.m.	By 10:00 a.m.	
College intends to <u>re-open for evening classes</u> which commence at 5 p.m. or later	2:30 p.m.	By 3:00 p.m.	
College intends to <u>NOT re-open for evening classes</u> :	2:30 p.m.	By 3:00 p.m.	

***Notification will be made via:**

- Georgian social media (Facebook, Twitter)
- Safe@Georgian app
- Georgian website (homepage)
- Recorded message when you call into Barrie campus at 705-728-1968
- Student or employee portal
- Georgian email account
- Radio and television announcements through local and regional media

Note: We only announce the names of campuses that are closed. If your campus is not named in a closure, it's open.