**COMP1008G Intro to OO Programming**

**Course Syllabus**

**Course Description:**

In this course, students will learn object oriented programming using Java. It is assumed students have already learned to design and outline the logic and structure of a program. Upon that foundation, this course will build skills in creating application programs that use object oriented programming concepts, API classes, and user-defined classes. Throughout the course, proper program documentation using class diagrams and comments will be stressed. Unit tests will be used to verify correctness and ensure program quality.

**Faculty Information:**

Rattan Ashat

Phone: 705.716.3680

Email: rashat@lakeheadu.ca

Office Hours: <https://calendly.com/rattanashat>

**Syllabus Change History**

|  |  |
| --- | --- |
| **Date** | **Change Description** |
| **Jan-07** | **Initial Release** |

**Course Learning Outcomes:**

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

1. design, develop and run simple applications using objects and classes
2. differentiate between and correctly use primitive data types and objects
3. devise automated unit tests and use them during development
4. develop and design class diagrams
5. develop classes and instantiate objects based on class diagrams and designs
6. develop a Java GUI
7. describe the concept of threads and why they are used

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:**

Classes will be held Mondays at 1 pm using a combination of in class learning and Online learning. Students are responsible for engaging with the content and building the associated code. It is a critical part of the learning to think through the examples, do not just watch the videos.

No classes on: February 26-Mar 1, 2024 (Study Week)

**Evaluation/List of Assessments:**

This course is composed of tests, assignments and labs. Grading criteria will be provided with each assignment’s instructions. *Tests will be written DURING scheduled classes with the exception of the final exam, which is scheduled during the exam period.*

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| Tests – see Sequence of Topics for due dates   * Test 1 (10%) * Addresses Chapters 3-8 and 12 * Written during class time in Week 5 * Midterm Exam (15%) * Addresses Chapters 3-10 and 12 * Written during class time in Week 8 * Final Exam (20%) * Address all course content * Scheduled during exam period * Addresses entire course | 45% |
| * Assignments - see Sequence of Topics for due dates * Quizzes (35%) * Take home labs (5%) * Assignment 1 (15%) | 55% |
| Total | 100% |

**Course Resources:**

Course textbooks can be ordered online through the [Lakehead University bookstore](http://bookstore.lakeheadu.ca/home) (<http://bookstore.lakeheadu.ca/home>). Purchases can be shipped to student home address or Georgian College bookstore on Barrie Campus. For more information, contact [Lakehead University bookstore](http://bookstore.lakeheadu.ca/contact-us) (<http://bookstore.lakeheadu.ca/contact-us>).

* Text: Java – How to Program 11th Edition. Paul Deitel & Harvey Deitel

**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** | **Assigned Readings** | **Assignments/Tests** |
| --- | --- | --- | --- |
| One/Jan 08 | Environment setup, review & intro to objects | Chapters 3-6 |  |
| Two/Jan 15 | Class design & unit testing | Chapter 7 & 8 | **Quiz 1 , Lab 1** |
| Three/Jan 22 | Unit testing | Chapter 8 | ***Quiz 2 , Lab Due*** |
| Four/Feb 29 | GUI development | Chapter 12 | ***Quiz 3*** |
| Five/Feb 5 | GUI development | Chapter 12 | ***Test 1 – in class*** |
| Six/Feb 12 | GUI development | Chapter 12 | ***Quiz 4*** |
| Seven/Feb 19 | Inheritance/Polymorphism |  | **Quiz 5** |
| Feb 26-Mar 1 | Study Week | | ***Assignment 1*** |
| Eight/Mar 4 | ***Test 2*** |  | ***Test 2 – in class*** |
| Nine/Mar 11 | Interfaces | Chapters 9 & 10 | ***Quiz 6*** |
| Ten/Mar 18 | Exception Handling | Chapter 11 | **Quiz 7** |
| Eleven/Mar 25 | GUI / JDBC (tentative) | Chapter 24 | ***Assignment 2*** |
| Twelve/Apr 1 | Review |  |  |
| ***Exam Week – Apr 2 to 9*** | ***Final Exam*** |  | ***Final Exam – location TBD*** |

Rows highlighted in green are remote weeks.

**Expectations for Successful Participation:**

1. Attend every class in person and ASK QUESTIONS!!
2. Check D2L regularly for announcements, reading and work assignments and course updates.
3. Ask questions if you need clarification (in class or use email). Please ensure that you “sign” your email with your name, course number and be specific with your question. Supply a GitHub link with your code if referencing code.
4. Keep up with your course work. Read the designated material and complete the assigned homework so that you can come to class ***PREPARED*** to discuss the issues and concepts during class time.
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. All labs are due by 11:59 pm 6 days after being provided to the students. Late lab submissions will NOT be accepted. Assignments will incur a 20% penalty per calendar day for late submissions.

**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&loaduseredits=False) (<http://csdc.lakeheadu.ca/Catalog/ViewCatalog.aspx?pageid=viewcatalog&catalogid=24&chapterid=6347&loaduseredits=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](https://www.lakeheadu.ca/faculty-and-staff/policies/student-related/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](http://www.georgiancollege.ca/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) (<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) (<http://www.georgiancollege.ca/wp-content/uploads/2-117IT-acceptable-use.pdf>) also apply.

The Lakehead University [Code of Student Behaviour and Disciplinary Procedures](https://www.lakeheadu.ca/faculty-and-staff/policies/student-related/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&loaduseredits=False)(<http://csdc.lakeheadu.ca/Catalog/ViewCatalog.aspx?pageid=viewcatalog&catalogid=24&chapterid=6364&loaduseredits=False>)

**Course Policies:**

* Missed ***test*** policy – only documented medical emergencies will be grounds for a rescheduled test.
* ***Assignment*** deadline policy – 20% penalty per calendar day for late submissions
* Late ***lab*** submissions will NOT be accepted

**Additional Information:**

***This is OUR course***. Please make the environment friendly, engaging and supportive. If you want to request changes (speed up, slow down, extra content, etc…), please let me know.

**Whom to Contact**

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| **Student Advising (non-academic)** | |
| Becca Allan  Advisor, Accessibility and Academic Success Services | * Tel: 705-728-1968, Ext. 5373 * [Becca.Allan@GeorgianCollege.ca](mailto:Becca.Allan@GeorgianCollege.ca)   (Georgian, Barrie) Room A143L |

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| **COMPUTER SCIENCE** | | |
| ***Lakehead University***  Department Chair | Dr. Vijay Mago | Tel: 807-343-8310  [vmago@lakeheadu.ca](mailto:vmago@lakeheadu.ca)  (Lakehead, Thunder Bay) Room AT 5016 |
| ***Georgian College***  Program Coordinator | Ross Bigelow | Tel: 705-728-1968, Ext. 5325  [ross.bigelow@georgiancollege.ca](mailto:ross.bigelow@georgiancollege.ca)  (Georgian, Barrie) Room A155 |
| ***Lakehead University***  Professor and Student Advisor | Dr. Ruizhong Wei | [rwei@lakeheadu.ca](mailto:rwei@lakeheadu.ca)  (Lakehead, Orillia) |
| ***Georgian College***  Program Assistant | Cheryl McWilliam | Tel: 705-728-1968, Ext. 1255  [cheryl.mcwilliam@georgiancollege.ca](mailto:Cheryl.mcwilliam@georgiancollege.ca)  (Georgian, Barrie) Room D125 |
| ***Georgian College***  Lab Technician | Computer Science Help Desk | Tel: 705-728-1968, Ext. 1173  [cstech@georgiancollege.ca](mailto:cstech@georgiancollege.ca)  (Georgian, Barrie) Room A155 |

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| **Coop ContactS** |

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| ***Georgian College***  Co-op Consultant  (Student Services for Computer Science-Computer Programmer; Course only for Electrical Engineering) | Beth Salt | Tel: 705-728-1968, Ext. 1642  [beth.salt@georgiancollege.ca](mailto:beth.salt@georgiancollege.ca) (Georgian, Barrie) Room B110V |
| ***Georgian College***  Employer Relations Consultant  (Employer relations and co-op monitor for Computer Science-Computer Programmer) | Jodi Derrick | Tel: 705-728-1968, Ext. 1493  [jodi.derrick@georgiancollege.ca](mailto:jodi.derrick@georgiancollege.ca)  (Georgian, Barrie) Room F118A |

**Student Services and Supports**

[**Student Advisors**](https://georgiancollege.sharepoint.com/sites/student/Student-Services/StudentAdvisors/SitePages/Home.aspx) (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**

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

Customer Service

* Off campus access

Research help

* Help finding books, articles and credible sources.
* Using specialty databases.
* Creating a search strategy.

[**Academic Success**](https://library.georgiancollege.ca/help/contact-academic-success) (<https://library.georgiancollege.ca/help/contact-academic-success>)

[**Writing Centre**](http://library.georgiancollege.ca/writing_centre) (<http://library.georgiancollege.ca/writing_centre>)

* Improve your writing.
* Help with citing sources and laying out your paper.

[**Math Centre**](http://library.georgiancollege.ca/math_centre) (<http://library.georgiancollege.ca/math_centre>)

* Make sense of math questions.
* Understand concepts and develop skills.

[**Tutors**](http://library.georgiancollege.ca/tutoring) (<http://library.georgiancollege.ca/tutoring>)

* Further understand course content.
* Build your study practices.

[**Accessibility Services**](https://www.georgiancollege.ca/student-life/student-services/accessibility-services/) (<https://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, email studentsuccess@georgiancollege.ca, 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 where required
* Training in the use of specialized computer technology
* Classroom and test accommodations

[**Testing Services**](http://www.georgiancollege.ca/student-life/student-services/testing/?pagetab=contact&pagepath=student-services%2Ftesting)(<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/)(<http://www.georgiancollege.ca/student-life/student-services/counselling/>)

* Free, confidential counselling is available to all students
* Walk in counselling is available on a daily basis Monday to Friday

[**Career Success**](file:///C:/Users/rkoster/Downloads/Career%20Success)(<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**](https://georgiancollege-my.sharepoint.com/personal/jaret_wright_georgiancollege_ca/Documents/courses%202018/COMP1008/2021/Syllabus%20and%20outline/Emergency%20Evacuation) **(**[**https://www.georgiancollege.ca/about-georgian/campus-safety-services/tab/fire**](https://www.georgiancollege.ca/about-georgian/campus-safety-services/tab/fire)**)**

* Evacuate buildings when a fire alarm is activated or an official announcement is given. Review [evacuation guidelines](https://www.georgiancollege.ca/about-georgian/campus-safety-services/tab/fire). (https://www.georgiancollege.ca/about-georgian/campus-safety-services/tab/fire)
* 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**](https://www.georgiancollege.ca/about-georgian/campus-safety-services/tab/lockdown) **(https://www.georgiancollege.ca/about-georgian/campus-safety-services/tab/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](https://www.georgiancollege.ca/wp-content/uploads/Lockdown.pdf) (https://www.georgiancollege.ca/wp-content/uploads/Lockdown.pdf)
* Lockdown tests occur each semester.

**Resources:**

* [Get Out, Hide, Fight Lockdown Video](https://www.youtube.com/watch?v=JA8cckMbVDk&feature=youtu.be) (<http://youtu.be/JA8cckMbVDk>)
* [Lockdown quick reference sheet](http://www.georgiancollege.ca/wp-content/uploads/COM-15-416_LockdownProcedure_Signage_FVR3_print.pdf) (<http://www.georgiancollege.ca/wp-content/uploads/COM-15-416_LockdownProcedure_Signage_FVR3_print.pdf>)
* Lockdown Model – Get Out, Hide, Fight: [Lockdown Tools and Tactics and FAQs](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) **(**[**https://www.georgiancollege.ca/about-georgian/campus-safety-services/tab/campus-closures**](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) (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) (<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 in the morning: | 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 expects to re-open by 12:00 noon | 9:30 a.m. | By 10:00 a.m. | Only affects classes beginning at 12 noon or later |
| Closure expected to continue past 12:00 noon | 9:30 a.m. | By 10:00 a.m. |  |
| College intends to re-open for evening classes which commence at 5 p.m. or later | 2:30 p.m. | By 3:00 p.m. |  |
| College intends to NOT re-open for evening classes: | 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.