# Instructor: **Professor Gary C. Thai**

Email: **Course Mail, Blackboard (Primary Point of Contact)**

[thai365@gmail.com](mailto:thai365@gmail.com) (Emergency Contact)

Telephone Number: (301) 246-0510 (Emergency Contact)

Virtual Office: Zoom Meeting Link | <https://montgomerycollege.zoom.us/j/98984792364?pwd=b3lYMUxnYi8xZG9zNkw4ZWdpT2E1dz09>

Check Blackboard for the most current Zoom link

~~Office: SC 441 (Science Center, Rockville Campus)~~

Virtual Office Hours: Monday:

Tuesday: 7p – 9p

Wednesday: 7p – 9p

Thursday: 5:30p – 6:30p

Or by appointments

Department Info: Phone: (240) 567-5230

Location: SC 436 (Science Center)

# Course Information

### Duration: 1/29/22 – 5/15/22

### Meeting Time: Saturday | 9a – 12:40p

### Location: Remote | Virtual Office’s Zoom Meeting URL

Prerequisite(s): CMSC 140

# Course Description

Fundamental computer concepts. Studies methods of object-oriented program development and design. The course also covers language systems and semantics, structured program verification, different language paradigms, and documentation techniques. Students use a structured, high-level object-oriented programming language (Java) and learn to use both text-oriented and windows-based user interfaces. Designing and implementing solutions to intermediate level programming assignments are an integral part of the course.

This is a hands-on course. Students will analyze, design, and develop code to solve real-world problems utilizing Java, JUnit and JavaFX.

MC’s online learning environment consists of both **Blackboard** and **Examity**. Students will be using these tools regularly throughout the term.

# Course Materials

eText: Revel for Gaddis, Starting Out With Java: Control Structures through Objects, 1e

Visit Blackboard (Course Content) to purchase our eText using (the) Open Pearson (link)

# Course Objectives

Upon completion of this course, students should be able to:

* Develop and enhance non-technical skills
* Speak and write about the course topics with sufficient proficiency
* Apply critical thinking to a variety of course topics
* Describe the object-oriented programming (OOP) environment and features
* Describe the OOP concepts – encapsulation, inheritance, and polymorphism
* Describe the concepts of recursion and Big O analysis
* Design, develop, modify, test, debug, and run Java applications utilizing OOP features
* Implement text-oriented and graphical user interface programs with event-driven input and output
* Implement intermediate-level programming assignments performing file processing

Purpose of the Syllabus and Blackboard Posts

This syllabus and my Blackboard posts outline the course’s goals, objectives, policies, and procedures. The instructor is committed to articular all course information clearly and transparently by including information here and online. **Each student MUST read all of the provided information thoroughly and carefully.**

Assessment Activities

Students will be assigned with pre-class activities, in-class activities, homework, projects, quizzes and exams throughout the semester. **CMSC 206 and CMSC 234 students will need to complete an additional group project assignment as well.**

Assignments: 35%

Quizzes: 15%

Exam 1: 12%

Exam 2: 13%

Final Exam: 25%

-------------------------------------------

100%

# Course Grade

Except for CMSC 203 and CMSC 204, the final course grade will be determined using the following scale –

|  |  |
| --- | --- |
| Grade | Expectation |
| A | >= 90% (of the total accumulated points) |
| B | Between 80% and 89.9% |
| C | Between 70% and 79.9% |
| D | Between 60% and 69.9% |
| F | <= 59.9% |

**For CMSC 203 and CMSC 204, the above grade distribution will only be applied if and only if a student has satisfied the GFA requirement for all project assignments**.

# Good Faith Attempt | CMSC 203 & CMSC 204

Every 203 & 204 student is required to complete between six and seven project assignments throughout the semester. Each project submission must satisfy a minimum set of requirements, and it’s defined as **the Good Faith Attempt (GFA)**.  The **GFA** has been posted under the Course Content area on Blackboard – read it carefully.

A student will not be able to earn a passing course grade unless all of their project submissions satisfied the GFA.

Grades are earned, but not given. I have established standards and will apply them consistently to the entire class. Please understand that being closed to a cutoff is not the same as making the cut (89.99 ≠ 90.00). It would be unethical to make exceptions for some students and not to others. **I will assign final course grades fairly, however, I will not respond to grade adjustment requests at the end of the semester.**

Assignment & Participation Expectations

##### All assignments will be distributed online (Blackboard), and their respective due dates will be clearly specified. **All assignments, including examinations, must be submitted on time – Late assignments will NOT be accepted.**

All in-class activities must be completed during class when we meet (Distance Learning classes excluded). We will use a mixture of lectures, discussions and hands-on activities during class each week to help students to learn the course materials. No make-up work will be provided for any missed in-class activities since students are expected to attend all scheduled classes.

For Distance Learning (DL) classes, each student is expected to participate actively online. How? Visit our online classroom three or more days each week – read and/or respond to others’ posts, post questions for others to consider – **stay engaged**.

To do well in this course, commit yourself and complete assignments regularly. Make it a point to learn something about the course everyday!

# Exam Policy

Unless it’s specified otherwise, all examinations are closed book and closed notes.

**No make-up exams will be provided** since **Exam dates will be announced in advance.**  Unless it’s a life changing event, I will NOT make any exception on this matter. If the Final Exam is not completed, a failing course grade (F) will be assigned.

**For Distance Learning classes**, assessments (weekly quizzes, Midterm & Final exams) must be completed –

* at one of the MC assessment centers, or
* **using Examity**

**Quizzes must be completed using a proctoring software, such as Examity.**

# Communicating with the Instructor

The best way to communicate with your instructor is via **Blackboard**, our online learning environment. I am committed to visit Blackboard four or more weekdays each week, and I will respond to most Blackboard inquiries by the following business day or sooner. I usually visit Blackboard **first thing in the morning**.

You could contact me by phone or email, however, my responses to these inquiries are slower – up to two business days. I will be visiting Blackboard just ab out every day – reach out to me there instead.

I am committed to helping everyone – **I want to ensure that each student can achieve their highest possible outcome**. With that said, each student must commit their best efforts as well. Learning is a two-way street.

# Attendance

Except for DL classes, students are **required** to attend all scheduled class sessions. **Excessive Absence** is defined as missing more than 10% of the scheduled classes or two classes during the fall or spring semester.

The instructor could withdraw (drop) a student from the course if **Excessive Absence** had occurred. If the situation occurs after the deadline to drop a course, the instructor could assign a “F” course grade to the student.

# Academic Integrity

**MC takes academic integrity seriously.**

**Unless specified otherwise, every assignment must be completed independently by each student.** For CMSC 206 and CMSC 234, there is a group project assignment where students will be assigned to a group. You are encouraged to learn, study and discuss course materials with others, however, **providing or receiving quiz/exam answers or letting someone else contribute to your assignments constitutes academic dishonesty**.

For all programming related assignments, one may receive insights, editing and debugging help from tutors, fellow students, acquaintances, or the Internet. **However, code sharing, whether it’s sharing code to others or copying code from others, is not permitted**. Students should complete their own coding. If the assignment uses programming features that have not yet been covered, the student will be asked to defend their work.

To promote learning, the Computer Science Department validates the integrity of all programming related submissions using a software program named MOSS. The software tests for programming similarity using artificial-intelligence-aided. The application very good at measuring percentage of similarities between submitted projects.

Any student who engages in any act that constitutes academic dishonesty or misconduct will be subjected to sanction. Penalties can include a 0 point on the assignment or an automatic failure for the course. It will be STRICTLY enforced. The incident will also be reported to the Dean of the Department and be reflected in the student’s transcript.

**The bottom line – Do your own work, and don’t share (your) code with others.**

Review the Code of Conduct section of the Student Handbook (Student Affairs section of the Official College Policies & Procedures web page,) if this message is not coming across clearly: [**http://cms.montgomerycollege.edu/pnp/#Chapter\_4**](http://cms.montgomerycollege.edu/pnp/#Chapter_4)

# Getting Help

You are expected to take personal responsibility for you own learning. This includes acknowledging when your performance does not match your goals and doing something about it. If you need help, see your instructor as soon as you can. Everyone can benefit from some guidance, but don’t wait until the end of the semester to do so. It will be too late then!

# Course Changes

The instructor reserves the right to alter the course schedule if necessary and he will notify the class prior to doing so.

# Computer Labs

Computer labs are available to students to use throughout MC campuses. Consult with the instructor for additional information, if needed

Tutoring  
Tutors are available in the Ackerman Learning Center. Review the posted schedule to seek help.

# Standards of College Behavior

Montgomery College seeks to provide an environment where discussion and expression of all views relevant to course subject matter are encouraged. However, students do not have the right to interfere with the faculty’s right to teach the course. Faculty and staff set the standards of behavior that are within the guidelines and spirit of the Student Code of Conduct or other College policies for classrooms, events, offices, and areas, by announcing or posting these standards early in the semester.

# Delayed Opening or Closing of the College

Montgomery College will always operate on its regular schedule unless otherwise announced. Depending on the nature of the incident, notifications of emergencies and changes to the College’s operational status will be communicated through one or more communication methods including the College’s web page <http://montgomerycollege.edu>

For the most up-to-date information regarding College openings, closings, or emergencies, all students, faculty, and staff are encouraged to sign up for email and text alerts via Montgomery College ALERT. Registration information is available at [*www.montgomerycollege.edu/emergency*](http://www.montgomerycollege.edu/emergency)

# Disability Support Services

Any student who needs an accommodation due to a disability should make an appointment to see the course instructor during office hours. In order to receive accommodations, a letter from Disability Support Services (LOCATIONS: Germantown-SA 189; Rockville-CB 122; or Takoma Park/Silver Spring-ST 122) will be needed. Furthermore, any student who may need assistance in the event of an emergency evacuation must identify to the Disability Support Services Office; guidelines for emergency evacuations for individuals with disabilities are found at: [http://cms.montgomerycollege.edu/edu/secondary5.aspx?urlid=52](http://cms.montgomerycollege.edu/edu/secondary5.aspx?urlid=52%20)

# Important Student Information Links

In addition to the course requirements and objectives that are specified in this syllabus, MC has information on its web site (see link below) to assist everyone in having a successful experience both inside and outside of the classroom.

Review, read and understand the provided information. The link below provides information and other resources to areas that pertain to the following: student behavior (student code of conduct), student e-mail, the tobacco free policy, withdraw and refund dates, disability support services, veteran services, how to access information on delayed openings and closings, how to register for the Montgomery College Alert System, and finally, how closings and delays can impact yourclasses. If you have any questions, please bring them to your professor. As rules and regulations change they will be updated and you will be able to access them through the link. If any student would like a written copy of these policies and procedures, the professor would be happy to provide them.

<http://cms.montgomerycollege.edu/mcsyllabus/>

<https://www.montgomerycollege.edu/admissions-registration/dates-and-deadlines.html>

It is the student’s responsibility to drop a course. Non-attendance of classes or failure to pay does not constitute official withdrawal. To view specific drop deadlines, log into your MyMC account:

* Click on ‘My Class Schedule’ under Student Quick Links
* Select the current term
* Click on ‘View Drop Deadline Dates’ at the bottom of the page

# Veteran’s Services

If you are a veteran or on active or reserve status and you are interested in information regarding opportunities, programs and/or services, please visit the Combat2College Web site at<http://www.montgomerycollege.edu/combat2college/>

**COURSE SCHEDULE**

|  |  |  |
| --- | --- | --- |
| **Date** | **Topic** | **Before Class[[1]](#footnote-1)** |
|  |  |  |
| 1/29/22 | Introduction to Computers & Java | Module 1, Ch. 2 |
|  | Java Fundamentals | **Project 1** |  |
|  |  |  |
| 2/5/22 | Decision Structures (Module 2A) | Module 2, Ch. 3 |
|  | Trace Tables (Module 2B) |  |
|  | Using the Javadoc Utility (Module 2C) | Appendix E |
|  | Loops & Files | Module 3, Ch. 4 |
|  |  |  |
| 2/12/22 | Methods (Module 5A) | **Project 2** | Module 5, Ch. 5 |
|  | A First Look at Classes | Intro |  |
|  |  |  |
| 2/19/22 | A First Look at Classes (Module 6) | Module 6, Ch. 6 |
|  |  |  |
| 2/26/22 | A First Look at Classes (Review) **| Project 3** |  |
|  | Junit Testing (Module 4) | Module 4 |
|  | JavaFX: GUI Programming and Basic Controls (Module 8-A) | | Module 8, Ch. 12 |
|  | **Exam #1 (Ch. 2 – 6) – NO JavaFX** |  |
|  |  |  |
| 3/5/22 | Arrays & ArrayLists | Module 10, Ch. 7 |
|  | Search & Sort |  |
|  |  |  |
| 3/12/22 | A Second Look at Classes and Objects (Module x) | Week 1 of 2 | **Project 4** | Ch. 8 |
|  | Using a Debugger |  |
|  |  |  |
| **3/19/22** | **Spring Break (No Class)** |  |
|  |  |  |
| 3/26/22 | A Second Look at Classes and Objects (Module x) | Review |  |
|  | Copying Objects, Memory Map, Privacy Leaks (Lec 8\_3) |  |
|  |  |  |
| 4/2/22 | Text Processing and More about Wrapper Classes (Module 15) | **Project 5** | Ch. 9 |
|  |  |  |
| 4/9/22 | Inheritance & Polymorphism (Module 16) | Week 1 of 2 | | Ch. 10 |
|  | Interfaces (Module 17) |  |
|  |  |  |
| 4/16/22 | Inheritance & Polymorphism (Module 16) | Week 2 of 2 | Ch. 10 |
|  | **Exam #2 (Ch. 7, 8, 9, 10, 12 - ~~10, 13~~)** |  |
|  |  |  |
| 4/23/22 | Exceptions & Advanced File I/O | **Project 6** | Ch. 11 |
|  |  |  |
| 4/30/22 | Recursion & Big O | Ch. 15 |
|  |  |  |
| 5/7/22 | Review |  |
|  |  |  |
| 5/14/22 | **Final Exam Week (Comprehensive Exam)** |  |

# Let’s Get Started!

**Log-on to Blackboard and visit our online environment to proceed! Make it a point to do so regularly.**

1. Assignments and due dates are subject to change as necessary. [↑](#footnote-ref-1)