MONTGOMERY COLLEGE: Course Syllabus
Computer Science and Information & Interactive Technologies
CMSC141: Intermediate Programming, Prof. J. Joy, Spring 2018

I. Contact Information: Professor J. Joy

Email: Janet.Joy@montgomerycollege.edu *(This is the preferred way to contact me.)* I usually answer my email first thing in the morning and again in the evening. *(It depends on my schedule.)* On weekends it may be less often.

Office Hours: Office in SC 438.
Tuesday: 3:00pm-5:00pm in SC 438
Thursday: 9:00am-11:00am in SC 438

Online with Zoom: Wednesday: 9:30am-10:30am and 6:00pm-7:00pm *or by appointment*

My office hours and other class materials are available at www.zebra0.com/MC

Your Montgomery College e-mail account is the official means of communication for the college. Blackboard will use this email address to send reminders about overdue projects and other announcements. It is recommended that you check this account routinely. To check your e-mail, log into your MyMC online account and locate the e-mail icon in the upper right hand corner of the page. You can forward your MC email to your other email.

Announcements sent from Blackboard may have "Do not respond" as the subject. Please take a look to see if it is important!

II. General Course Information: CMSC141 - Intermediate Programming

Designed for students with prior programming experience. This course covers topics such as control structures, data types, functions/methods, arrays, and introduction to objects. **PREREQUISITE:** A grade of C or better in CMSC 140 or consent of department. One hour each week. 1 semester hour

This is a completely online course. There is no class meeting. Active participation in the online activities and completion of all homework and online assignments is required in order to pass this course. Log onto the course at least three times per week and demonstrate presence through posting and interaction. You will use a standard Java compiler to do Projects and submit them in Blackboard.

III. Student Learning Outcomes

Upon course completion, a student will be able to

- Demonstrate ability to select and apply the appropriate control structure
- Demonstrate ability to select and apply the appropriate loop constructs
- Demonstrate use of the arrays
- Demonstrate understanding of objects
- Demonstrate ability to write various kinds of functions/methods.

IV. Course Materials

- We will be using http://math.hws.edu/javanotes/ that is available free online. You can also download the text in pdf format. This text will give you an in depth understanding of the topics.
- We will be using zebra0.com/java for free tutorials showing how to write the programs.
- Eclipse software, FREE download and install Eclipse from https://eclipse.org/downloads/
- Storage device for program backups.

V. Grading

Exams: There will be a final exam that must be taken in one of the assessment centers. The final exam is 30% of the grade.

Discussion: Each week has a discussion question that must be done in Blackboard, each of these discussion questions is 1% of the grade up to the maximum of 10%. There are 12 discussions; you must do at least 10 to get full credit. Your comments in Blackboard must use standard American English and spelling and be professional in attitude. They must show courtesy and respect for your classmates, even if you disagree with their point of view. You can also use the discussion to ask questions. Some of your questions will be answered by your classmates; others I will answer. There is no discussion or quiz during exam weeks. ***Discussion is 10% of grade.***

Quizzes: Each week has a quiz that must be done through Blackboard; each of these quizzes or activities is 1% of the grade. There are 6 quizzes. Each quiz is 2% of your grade. ***Quizzes are 12% of grade.***

Programming Projects: There will be 6 projects due throughout the semester. These 6 projects are 8% each. A project loses 5% each day it is late!
Projects are 48% of the grade

This is an online course. Active participation in the online activities and completion of all online assignments is required in order to pass this course.

A=100-90% B= 89-80% C=79-70% D=69-60% F=60%-below

Due Dates: All projects, discussions, and quizzes are due on Sunday night, postmarked by 11:59 pm. This effectively ends one week so that you are ready for the next week.

Participation: Students must participate in the Blackboard discussion every week. **If you miss 2 weeks in a row without contacting me, you are subject to being dropped from the class.**

Audit Policy: If you are auditing, you are welcome to participate in the Blackboard discussions and take all exams and activities, but it is not required.

VI Class Policies: Important Student Information Link

In addition to course requirements and objectives that are in this syllabus, Montgomery College has information on its web site (see link below) to assist you in having a successful experience both inside and outside of the classroom. It is important that you read and understand this 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 your classes. 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. By registering for this class and staying in this class, you are indicating that you acknowledge and accept these policies.

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

VII Resources

Computer problems: As a computer student, you are expected to anticipate potential computer problems. Save often! Keep backups! Allow plenty of time to complete the assignment! Computer problems are not an excuse for submitting an assignment late! I can provide help if you send me a clear explanation of the problem, plus any relevant source files or screen shots.

Technical Requirements & Technical Support: You will need the following to participate online:

- Regular use of a computer with Internet access and a web browser such as Firefox, Chrome, or Internet Explorer. Expect to spend several hours online each week.
- A web browser such as Firefox, Chrome, or Internet Explorer.
- See prepare yourself: http://cms.montgomerycollege.edu/distance/prepare/
- It is highly recommend that you have internet access at home, however, there are computer labs http://cms.montgomerycollege.edu/oit/InTech.aspx?id=60795

For technical assistance with college supported resources, call the Montgomery College IT Service Desk at 240-567-7222 or ://cms.montgomerycollege.edu/EDU/Department2.aspx?id=9356

Blackboard Help Desk: The **HELP** link on the left-hand course menu links to the **MC Blackboard Online Support Center:**

- Call the Support Center at 240-567-7222 or
- Chat with a service representative, or
- Submit a ticket.

Note: Click the **My Support** link at the top of the Blackboard Online Support Center screen to view a history of your correspondence with the Blackboard Support Center.

System Downtime: The Office of Information Technology conducts computer network maintenance on Sunday morning from 12:01 AM to 6:00 AM each week. During this time you

may be not be able to access My MC to login to Blackboard. Do not rely on this time to submit course work.

Distance Learning Support: For all general distance education related questions, contact the Office of Distance Education and Learning Technologies at 240-567-6000 or **dl@montgomerycollege.edu**.

For all Blackboard and MyMC related questions and issues, contact the IT Service Desk at 240-567-7222 or **ITServiceDesk@montgomerycollege.edu** or **Blackboard Online Support Center**.

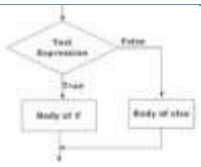
Class Schedule and Important Dates

In order to provide the best possible learning experiences, these dates may change. Please refer to the resources in Blackboard for any announcements or changes. March 19 is the official start date for this course.

Unit 1: March 19-March 25
Introduction, Introduction to Java
In this unit you will meet your classmates and install Eclipse. You will learn the basics of Java.

- Read the syllabus, Introduce yourself in Blackboard
- Install Eclipse: Quick Start
- Quiz 1: Introduction to Java in Blackboard
- Discussion in Blackboard

- **Program1: Hello World**



Unit 2: March 26- April 1 Atoms, Java Types, Decisions
In this unit you will learn about Boolean expressions and write if/else statements.

- Discussion in Blackboard
- Quiz 2: Java Types in Blackboard
- Quiz 3: Decisions in Blackboard
- **Program 2: Rock, paper, scissors**

Unit 3: April 2- 8 Loops and Methods
In this unit you will learn to use loops and methods.

- Discussion in Blackboard
- Quiz 4: Loops in Blackboard
- Quiz 5: Methods
- **Program 3: Statistics**

Unit 4: April 9-April 15 Classes

- Discussion in Blackboard
- Quiz 5: Classes in Blackboard
- **Program 4: Employee class**

Unit 5: April 16- April 22 Arrays

- Discussion in Blackboard
- Quiz 6: Arrays in Blackboard
- **Program 5: Fractions**

Unit 6: April 23- April 29 Subroutines

- Discussion in Blackboard
- Quiz 7: Subroutines in Blackboard
- **Program 6: Chinese Year**

Unit 7: April 30-May 6 Final Exam

This week you will take the final exam. There is no quiz or discussion.

You must take the final exam in one of the MC Assessment centers between April 30 and May 6. Please contact me for arrangements if you are not in Maryland.

A Typical Week in CMSC141

An online class requires quite a bit of self motivation. Active participation in the online activities and completion of all homework and online assignments is required in order to pass this course.

Each week there is a list of activities in Blackboard under Course Content. After doing these activities (reading, videos, tutorials), you will create one or more programs on your own computer, then add additional features and enhancements to show your understanding of the material and to personalize the project. After finishing the project you will share your thoughts and ideas with your classmates on Blackboard.

Write your response to the discussion question early in the week so that there is time to exchange ideas and thoughts with classmates.
Each week there is a quiz in Blackboard that is due by Sunday. You can take the quiz again if you miss any questions. Obviously, if you wait until Sunday night to take the quiz, there isn't much opportunity to take it over. Take the quiz early in the week so that you can repeat it if necessary. At the end of the semester I drop the lowest quiz grade. If you miss a quiz for whatever reason, this is the one that is dropped. I do not open a quiz back up after the deadline.

Check into the discussion board in Blackboard periodically to ask questions, answer questions, and respond to your classmates.

The projects, quizzes and discussion questions are due on Sunday night. Sunday marks the end of the week so that we end one week on Sunday and begin the next week on Monday. When you make out your schedule for the week, be sure to block out at least 9 hours when you can read and work on a computer!

Start on Monday by looking in Blackboard for the week's assignments and discussion questions. Keep the discussion questions in mind as you read the chapter.

You are expected to save all of your work on a Flash drive or other storage device. You are responsible for completing all of the work on time even if your computer crashes.