

Midland College
COSC 1337 - Syllabus
Programming Fundamentals II
SCH (3-1)

Course Description:

This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. (This course is included in the Field of Study Curriculum for Computer Science.)

Prerequisite: COSC 1336/1436 – Programming Fundamentals I

Text, References, and Supplies:

CENGAGE UNLIMITED-ACCESS (12 Months), Author: CENGAGE, ISBN: 978-0-357-70004-4 (This access code includes MindTap Programming as well as the eText for the course: Java Programming, 9th Edition, Joyce Farrell, Course Technology - Cengage Learning, ISBN-13: 978-1-337-10207-0)

A computer with a webcam as well as reliable internet access – needed to take exams.

LockDown Browser and Respondus Monitor® one-year license - needed to take exams.

NOTE: You are not required to purchase a printed textbook. However, students can obtain this book through their Cengage Unlimited account for an additional fee.

Software: We will be using *Eclipse* for the course. *Eclipse* is installed on all Computer Science classroom computers and in lab 149.

Hardware: You will need a computer capable of running Eclipse to complete your work. For testing you will need to have access to a web camera. **As well as reliable internet access**

Materials: USB Flash drive for saving your work (if working on campus).

Student Learning Outcomes (SLO) and Core Competencies:

- SLO1. Identify and explain a programming development lifecycle, including planning, analysis, design, development, and maintenance.
- SLO2. Demonstrate a basic understanding of object-oriented programming by using structs and classes in software projects.
- SLO3. Use object-oriented programming techniques to develop executable programs that include elements such as inheritance and polymorphism.
- SLO4. Document and format code in a consistent manner.
- SLO5. Apply basic searching and sorting algorithms in software design.
- SLO6. Apply single- and multi-dimensional arrays in software.
- SLO7. Use a symbolic debugger to find and fix runtime and logical errors in software.
- SLO8. Demonstrate a basic understanding of programming methodologies, including object-oriented, structured, and procedural programming.
- SLO9. Describe the phases of program translation from source code to executable code

Student Contribution/ Class Policies:

Students are encouraged to contact the instructor at any time. If you need to meet with the instructor, you will need to make an appoint to guarantee the instructor's availability at a specific time.

Students will be expected to exhibit professional behavior in class. With regard to cell phone use, keep it on silent and do not take calls unless it is an emergency. Texting, social networking, gaming or any other type of cell phone activity is not permitted during class time. Students may not use their cell phones at all while completing exams.

Students MUST actively participate by completing an academic assignment required by the instructor by the official census date. **Students who do not actively participate in an academically-related activity will be reported as never attended and dropped from the course.**

Students are expected to participate in class regularly. It is the student’s responsibility to log into Canvas. All due dates can be found on the course schedule posted in Canvas. Students are expected to behave in a manner that will not interfere with the learning process.

Should you find that you are unable to complete the course, it is necessary for you to contact the Office of Student Services at Midland College and officially drop the class; otherwise a grade of “F” will be given for the semester grade. The policy for student withdrawals is stated in the college Catalog in the [Student Rights & Responsibilities](#) section. The last day for withdrawal is published in the Midland College catalog and the current course schedule.

Midland College does not tolerate **scholastic dishonesty or academic misconduct** in any form. Please read the [Midland College student handbook](#).

COVID-19 prevention

Students attending face-to-face classes during the fall semester are required to wear face masks and maintain physical distancing at all times while in classrooms and buildings.

Students are encouraged to self-screen for COVID-19 symptoms each day before coming on campus. Students experiencing COVID-19 symptoms should stay home. Students are required to clean their own workspaces before and after each class using products provided by the college.

Grading/ Evaluation of Students:

Upon completion, your performance objective scores will be translated to percentages and the percentages to grades. Assignments will be evaluated and a score assigned. The score will be expressed as a percentage of possible points earned. Percentages are converted to grades and will be assigned as follows:

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

Debugging Assignments.....	10%
Programming Assignments.....	40%
Project.....	20%
Paper/Project/Exams.....	30%
Total.....	100%

Exams

This course requires the use of Respondus LockDown Browser and Respondus Monitor for all exams. LockDown Browser® is a custom browser that locks down the testing environment within a learning management system. Respondus Monitor® builds upon the power of LockDown Browser, using a student's webcam and industry-leading video analytics to prevent cheating during exams.

Students pay a fee for a 1-year subscription for unlimited usage of LockDown Browser and Respondus Monitor at MC. (Single fee for all MC classes).

Quizzes/Assignments/Exams

All quizzes/assignments/exams have a due date. No late submissions will be accepted.

Feedback will be given through Canvas within a week of the due date of the assignment.

Course Schedule:

For a tentative schedule of the class material and specific due dates of assignments to be covered, please refer to the schedule provided in Canvas.

Canvas:

It is important for you to log into [Canvas](#) every day.

ADA Statement:

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must visit www.midland.edu/accommodation and complete the Application for Accommodation Services located under the Apply for Accommodations tab. Services or accommodations are not automatic, each student must apply and be approved to receive them. All documentation submitted will be reviewed and a "Notice of Accommodations" letter will be sent to instructors outlining any reasonable accommodations.

AMERICANS WITH DISABILITIES ACT

The Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act require that no otherwise qualified person with a disability be denied access to, or the benefits of, or be subjected to discrimination of any program or activity provided by an institution or entity receiving federal financial assistance. It is this Section 504 mandate that has promoted the development of disability support service programs in colleges and universities across the country. Sub-part E of Section 504 deals specifically with this mandate for institutions of higher education.

While it does not require development of special educational programming, for students with disabilities, it does require that an institution (public or private) be prepared to make appropriate academic adjustments and reasonable accommodations to allow the full participation of students with disabilities in the same programs and activities available to non-disabled students. Disabilities may include things such as physical/mobility problems such as paralysis or academic problems like learning disabilities. Some examples of accommodations are extra time for tests, testing in a quiet location, and providing architectural access to buildings.

Non-Discrimination Statement:

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following individual has been designated to handle inquiries regarding the non-discrimination policies:

Tana Baker Title IX Coordinator/Compliance Officer 3600 N. Garfield, SSC 131 Midland, Texas 79705
(432) 685-4781 tbaker@midland.edu

For further information on notice of non-discrimination, visit the ED.gov Office of Civil Rights website, or call 1 (800) 421-3481

Applied Technology Division Information:

Division Dean:	Curt Pervier	143 TC	(432) 685-4677
Program Chair:	Heather Sanders	142 TC	(432) 686-4821
Division Secretary:	Lisa Hays	143 TC	(432) 685-4676

Communication is important! If you have a problem that is interfering with your successful completion of this course, please contact the instructor. Students are encouraged to contact the instructor at any time; however, making an appointment will guarantee the instructor's availability at a specific time.

Allow 48 hours for the instructor to return all calls and emails.