Midland College Syllabus

COSC 1336

Programming Fundamentals I

Course Description
This course introduces the fundamental concepts of structured programming, and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. (This course is included in the Field of Study Curriculum for Computer Science.)

Prerequisite: None

Course Participation
For Online and Hybrid classes, students MUST actively participate by completing an academic assignment by the official census date. Students who do not do so, will be dropped from the course.

Text, References and Supplies
Starting Out with C++: From Control Structures through Objects 8/E, Tony Gaddis

Should you choose to purchase your textbooks somewhere other than the college bookstore you should always check with the instructor first to make sure that there has not been a change in books and that you are purchasing the complete package used for the course.
### Student Learning Outcomes (SLO) and Core Competencies

Students who successfully complete this course will be able to:

<table>
<thead>
<tr>
<th>SLO</th>
<th>Description</th>
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<tbody>
<tr>
<td>SLO1</td>
<td>Describe how data are represented, manipulated, and stored in a computer</td>
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<td>SLO2</td>
<td>Categorize different programming languages and their uses.</td>
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<td>SLO3</td>
<td>Understand and use the fundamental concepts of data types, structured programming, algorithmic design, and user interface design</td>
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<td>SLO4</td>
<td>Demonstrate a fundamental understanding of software development methodologies, including modular design, pseudo code, flowcharting, structure charts, data types, control structures, functions, and arrays.</td>
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<td>SLO5</td>
<td>Develop projects that utilize logical algorithms from specifications and requirements statements.</td>
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<tr>
<td>SLO6</td>
<td>Demonstrate appropriate design, coding, testing, and documenting of computer programs that implement project specifications and requirements</td>
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<tr>
<td>SLO7</td>
<td>Apply computer programming concepts to new problems or situations.</td>
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### Student Contributions Responsibilities and 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.

Students are expected to attend class, for online that means logging in to Canvas regularly and completing assignment.

This will be an in-depth, fast-paced course. It is important that you complete the assignments before the due dates. Late work will not be accepted. There will be no exceptions to this policy.

**Lab Assignments/Homeork:** It is important that the student complete all homework assignments. Late assignments will not be accepted. There will be no exceptions to this policy.

*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.*
Americans with Disabilities ACT (ADA)

Any student who, because of a disabiling condition, may require some special arrangements in order to meet course requirements should contact Shep Grinnan as soon as possible. Mr. Grinnan’s office is located in the Scharbauer Student Center Building. These conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations/documentation.

Scholastic Dishonesty

Midland College does not tolerate scholastic dishonesty or academic misconduct in any form. Please read the MC Student Handbook on this subject. Full information about Midland College policy can be found at Scholastic Dishonesty and Academic Misconduct.

Grading/Evaluation of student

Your final grade will be calculated as follows:

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

Grading Formula:

- 30% - Homework assignments
- 5% - Group Assignments
- 10% - Quizzes
- 10% - Research Paper
- 35% - Exams
- 10% - Semester Project

Course Schedule

Posted in Canvas

Instructor Information

Contact Information Posted in Canvas
Office Hours Posted in Canvas

Division Information

Applied Technology Division

- Division Dean: Curt Pervier TC 143 432-685-4677
- Program Chair Vickie Pickett TC 107 432-686-4204
- Division Secretary: Lisa Tanner TC 143 432-685-4676
- Division Clerk: Helen Arrieta TC 143 432-685-4664
- Division Advisor Dawn Finley ATC 130 432-681-6310
- Division Fax: (432)685-4672

10/20/16