**Fall 2020**

**CPTR151**

**Computer Science I**

**William Wolfer**

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**cell: 269.985.3134**

# 1 schedule information

* Class location: HYH307

1. Credits offered: 3 [TOC](#_interactive__table)

# 2 Instructor Contact

1. Instructor: William Wolfer,
2. Telephone: 269-471-6879
3. Email: wolferb@andrews.edu
4. Office location: HYH310
5. Office hours: Subject to change(will update on my office door appropriately)
6. (Typically in my office by 8:30 M-F)
8. [TOC](#_interactive__table)

# 3 DISCLAIMER

1. This syllabus is subject to change. Subsequent versions will be uploaded and available in iVUE. [TOC](#_interactive__table)

# 4 course description

1. An introduction to programming methodology, problem-solving, algorithm development, control structures, arrays, program style, design correctness and documentation techniques, as well as a brief overview of computer systems and computer history. Fall
2. No Prerequisite: [TOC](#_interactive__table)

# 5 course materials

1. **Optional and Highly Recommended:**
2. Problem Solving with C++; Tony Gaddis, beginning programming c++. [TOC](#_interactive__table)

# 6 PROGRAM oUTCOMES

1. **Program Outcomes (PO)**
2. 1. Develop computer code using a modern high level programming language to solve a specific problems.
3. 2. Understand and apply concepts of computer science as required during the solution of a computing
4. problem
5. 3. Design a program based on project requirements
6. 6. Document code
7. 8. Use a compiler
8. [TOC](#_interactive__table)

# 7 STUDENT LEARNING oUTCOMES

1. **Student Learning Outcomes (SLO) The student should be able to**:
2. … to apply knowledge of computing and mathematics appropriate to the discipline.
3. … design, implement and evaluate a computer-based system, process, component, or program to meet desired needs.
4. …. recognize professional, ethical, legal, security, and social issues and responsibilities.
5. … communicate effectively with a range of audiences.
6. … possess an ability to use current techniques, skills, and tools necessary for computing practices
7. … to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choice.
8. systems in a way that demonstrates comprehension of the tradeoffs involved in design choice.
9. [TOC](#_interactive__table)

# 8 Topics and Assignments

**Academic Calendar: Very important for you to familiarize yourself.** [**http://bulletin.andrews.edu/content.php?catoid=11&navoid=1322/**](http://bulletin.andrews.edu/content.php?catoid=11&navoid=1322/)

1. [TOC](#_interactive__table)

# 9 GRADING criterIA

1. All assignments are due strictly at the beginning of the class period assigned.
2. No late home will be accepted.
3. No makeup exams will be offered.
4. Homework assignments and due-dates will be given at the appropriate time.
5. Midterm exam will be announced at the appropriate time
6. All due dates will be clearly announced.

**Homework Rubric:**

**CPTR151-2 Computer Programming Rubric**

**NOTE: Must be Excellent to Earn Points**

|  |  |
| --- | --- |
|  | **Excellent** |
| **Delivery** | * Completed between 100% of the requirements. * Delivered on time, and in correct format (disk, email, etc.) |
| **Coding Standards** | * Includes name, date, and assignment title. * Excellent use of white space. * Creatively organized work. * Excellent use of variables (no global variables, unambiguous naming). |
| **Documentation** | * Clearly and effectively documented including descriptions of all variables. * Specific purpose is noted for each function, control structure, input requirements, and output results. |
| **Runtime** | * Executes without errors excellent user prompts, good use of symbols, spacing in output. * Thorough and organized testing has been completed and output from test cases is included. |
| **Efficiency** | * Solution is efficient, easy to understand, and maintain. |

**Note: Students have up to due-date to achieve Excellence per assignment, else 0 (zero) for the assignment.**

**Resources: Teacher(s), Class TA, Tutor, Sudy Groups, Peers, Internet, Text Book.**

**NO LATE ASSIGNMENTS ACCEPTED**

1. **Criteria for Grades**
2. **Grade Distribution and Percentage:**
3. Assignments 30
4. MidTerm 35
5. Final 35
6. = 100%
7. **Passing Grades**
8. **Grade and Percentages:**
9. Letter Grade Percentage

|  |  |
| --- | --- |
| A  A-  B+  B  B-  C+  C  C-  D  F | 95-100  90-94  85-89  80-84  75-79  70-74  65-69  60-64  55-50  0-54 |

**Assignment Submission**

1. State preferred method of assignment submission (e.g., hard copies and Moodle).

**NO Late Submission**

1. [TOC](#_interactive__table)
2. [TOC](#_interactive__table)

# 11 Class policies

1. **Student Responsibility**
2. Email is the official form of communication at Andrews University. Students are responsible for checking their Andrews University email, Moodle, and iVue regularly.
3. **Professionalism**
4. To prepare students for the professional world, certain behaviors/activities are not allowed in the classroom.

* Cell Phones, Personal Laptops, and Recording devices: Cell phones should be turned off before entering the classroom. Picture-taking during class is not allowed. Recording devices are allowed only if pre-approved by instructor, and if approved, under no circumstance are recordings—visual or verbal—to be posted on a public website.

1. Laptops should not be used for surfing the web or watching movies during class. It is disrespectful and unprofessional to use these devices inappropriately during class.

* Late Assignments are unacceptable unless prearranged with instructor.
* Tardiness.
* Eating in class: Please do not bring food or beverages to class. Water is permitted.

1. Presentation is important. Your attention to detail, demeanor, and attire factor into how you are perceived as a professional. Active participation in class discussions and critiques is an essential part of learning. Without participating and expressing opinions and thoughts, it is impossible to clarify your goals and develop a personal style.
2. **Classroom Seating**
3. Assigned
4. **Disability Accommodations**
5. If you qualify for accommodation under the American Disabilities Act, please contact Student Success in Nethery Hall 100 ([disabilities@andrews.edu](mailto:disabilities@andrews.edu) or 269-471-6096) as soon as possible so that accommodations can be arranged.

**Late Assignment Submission**

1. No Late assignments allowed, please refer to the above criteria.

**Additional Policies**

1. All resources are available to you including your instructor, class TA, Peers, internet, etc…
2. **Class Attendance**

Required. Daily participation is so important to the students success, taking notes, attending classes, asking questions are just a few examples of being an active participant.

1. **Teacher Tardiness**
2. “Teachers have the responsibility of getting to class on time. If a teacher is detained and will be late, the teacher must send a message to the class with directions. If after 10 minutes no message has been received, students may leave without penalty. If teacher tardiness persists, students have the right to notify the department chair, or if the teacher is the department chair, to notify the dean”. *AU Bulletin 2014-2015 – Student Responsibilities, page 30*
3. **Class Absences**
4. “Whenever the number of absences exceeds 20% (10% for graduate classes) of the total course appointments, the teacher may give a failing grade. Merely being absent from campus does not exempt the student from this policy. Absences recorded because of late registration, suspension, and early/late vacation leaves are not excused. The class work missed may be made up only if the teacher allows. Three tardies are equal to one absence.
5. Registered students are considered class members until they file a Change of Registration form in the Office of Academic records”. *AU Bulletin 2014-2015 – Student Responsibilities, page 30*
6. **Excused Absences**
7. “Excuses for absences due to illness are granted by the teacher. Proof of illness is required. Residence hall students are required to see a nurse on the first day of any illness which interferes with class attendance. Non-residence hall students should show written verification of illness obtained from their own physician. Excuses for absences not due to illness are issued directly to the dean’s office. Excused absences do not remove the student’s responsibility to complete all requirements of a course. Class work is made up by permission of the teacher”. *AU Bulletin 2014-2015 – Student Responsibilities, page 30*
8. **Academic Integrity**
9. University learning thrives on the rigor of individual investigation, the authentic exchange of ideas, and a corporate commitment to integrity and mutual respect. University learning requires all members of the academic community to behave honestly. Andrews University anchors its practices in the teachings of the Bible as well as in widely established and honorable academic traditions. As the apostle Paul calls us to authenticity in our Christian walk, so the educational institution demands of its participants true and accurate self-representation. In Ephesians, Paul invites believers “to be renewed in the spirit of your minds, and to clothe yourselves with the new self, created according to the likeness of God in true righteousness and holiness” (Eph. 4:23-24, NRSV). As scholars and as Christ servants, we build His living body through our honesty in all things, both small and great. To that end, Andrews University’s faculty and students pledge to learn and grow together, committing to the following Standards and affirming honesty as a core component of an Andrews University education.
10. Section 2: Standards for Students
11. The Andrews University faculty pledge to promote classroom experiences that foster academic integrity. In the same way, students commit to do their part to build a community of honesty. Students promise to:
    1. Present assignments, lab reports, and research findings that are not falsified in any way.
    2. Respect copyrighted and/or licensed material (whether it be directly quoted or paraphrased)
12. by citing print or electronic sources as appropriate.
    1. Follow the source citation guidelines outlined by the course professor.
    2. Submit work that is solely created by the person to whom it is assigned.
    3. Contribute equitably when participating group-work.
    4. Prepare for quizzes and examinations by study and review without stealing, accepting, or using
13. unauthorized quizzes or examination materials.
    1. Follow the professor’s instructions regarding allowable aids during a quiz or examination.
    2. Complete quizzes and tests without seeking answers from or sharing answers with other
14. students or unauthorized sources.
    1. Encourage others to high standards of integrity by refusing to assist in acts of academic
15. dishonesty.
16. **Emergency Protocol**
17. Andrews University takes the safety of its student seriously. Signs identifying emergency protocol are posted throughout buildings. Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting that specific location. It is important that you follow these instructions and stay with your instructor during any evacuation or sheltering emergency. [TOC](#_interactive__table)

# 12 credit hour declaration

1. **Credit-Hour Definitions**
2. **Estimation of Time Use for Completing Assignments for this Course**
3. An undergraduate 3-credit course requires a total of 135 hours for course lectures, reading requirements and written assignments. For this course, the instructor estimates that this total of 135 hours will be distributed in the following activities: **[Lectures, Reading, assignments]**

* Class lectures during the intensive: 45-50 hours
* Reading: 20 hours
* Written assignments:75 hours

1. [TOC](#_interactive__table)
2. COVID.

**COVID-19 guidelines and accommodations for syllabi**

Because we are teaching and learning during a pandemic, instructors will make every reasonable effort to accommodate students’ needs. Communication is key for a successful semester. Please be in contact with your instructor if any situation arises that interferes with your learning.

Additionally, we ask the following from you, our students:

1. Wear a mask that covers your nose and mouth at all times inside the classroom and in enclosed spaces.
2. Follow the instructions of your teacher and posted signs for entering/exiting the classroom, selecting a seat, and cleaning your area.
3. Do not physically attend class if you are exhibiting symptoms or believe you may have been exposed to COVID-19. Reach out to your instructor immediately to work out the details on how you can continue learning remotely.
4. Follow your teachers' instructions and policies for camera, microphone, and software use if this course has remote learning experiences.
5. Commit to creating a safe classroom environment which precludes posting class materials (including links to unlisted videos or clips of videos removed from context) to social media or other forums. Disparaging faculty and classmates on social media or in virtual spaces is a breach of Christian ethics and the Andrews University community agreement.

**Sit in the color designated seats for your time period.**

**Sit in the lame seat the entire semester.**

**Spray down your area prior to leaving your seat**

**Class topics and assignments.**

**All assignments will be submitted through learning hub**