

# CSCI 2000-A      Structured Programming I (C++)      Spring 2015 – CRN: 2837

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**Class Schedule:** TTR 12:45pm-2:00pm (75 minutes, Period 4)  
**Class Room:** 205 Goodwyn Hall (teaching lab)

**Professor:** Dr. Jerome Goddard II  
**Office:** 310 R Goodwyn Hall  
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**E-mail:** [jgoddard@aum.edu](mailto:jgoddard@aum.edu)  
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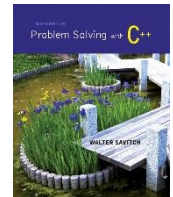


**Office Hours:** TTR 9:25am-10:40am & W 12:30pm-3:30pm (others by appointment)

## Important Dates:

January 19-20	MLK holiday & student holiday!
March 13	Midterm grades due
March 23-27	Spring Break!
April 1	Last day to drop/resign classes
May 5	Last day of classes
Thursday, May 7, 10:45am-1:15pm	Final Exam

**Text:**      **Problem Solving with C++** Walter Savitch (9e), Pearson 2015



## Catalog Description:

*CSCI 2000*

*3 credit hours*

*Structured Programming I (C++)*

Time-shared computer systems; programming methodology and problem-solving techniques; flow of control; numeric and string processing; pointers; static and dynamic data structures; procedures, functions, and recursions.

**Prerequisites:** MATH 1510 (Survey of Calculus) **OR** MATH 1610 (Calculus I) **OR** an equivalent course.

## Course Objectives:

Selected topics from chapters 1-11. Upon successful completion of this course the student will demonstrate an understanding of and ability to apply each of the following topics (time permitting):

- Basic programming skills in C++ including:
  - Problem-solving techniques
  - Flow of control
  - Procedures & functions
  - Numeric & string processing
- Streams & basic I/O
- Static & dynamic data structures including arrays
- Pointers & memory management
- Classes & overloading
- Recursion

**Methods of Instruction:** The format of class meetings will consist of interactive lectures, in-depth discussion, & in-class computer lab projects. Student participation is highly encouraged.

**Computer Lab:** The computer platform for this course is Linux/UNIX. It is recommended that you install a distribution of Linux/UNIX on your home computer and become familiar with the system.

**Calculator:** According to AUM Department of Mathematics Calculator Policy, students are encouraged to possess a graphing calculator. A Texas Instrument's TI-84 (TI-83 or TI-82) is recommended. **Calculators are NOT allowed on assignments/exams** but may be used for homework or in-class discussion.

**Electronic Devices:** Cell phones, computers, tablets, and other electronic devices (except approved calculators) should be powered off, set to emit no audible sound (including vibration and messaging), and put away during class. **\*\*\*Use of cell phones for any purpose during class is in violation of class policy\*\*\***

**Free Tutoring:** Free one-on-one tutoring is available in the Learning Center (LC), located in 225 Library Tower (Phone: 334-244-3470). Students can call or stop in for an appointment. In addition, the LC hosts several calculator workshops. The Instructional Support Lab (ISL) located in 203 Goodwyn Hall (Phone: 334-244-3265) is another free tutorial center that is available to assist AUM students. Tutorial services at the ISL are available on a first come, first serve basis--no appointment necessary. Also, please feel free to come by my office during regular office hours for help.

**Academic Integrity:** As a student in this class you are committed to abide by the standards of academic integrity stated in the AUM catalog. Cheating of any form is not tolerated. Violators will receive an “F” course grade for any offense.

**Attendance:** Class attendance is mandatory and will be taken at each class by your signing an attendance sheet. Failure to sign the attendance sheet will be counted as an absence. A student is considered to be absent if they come in after attendance has been taken or leave early. **Students are solely responsible for catching up on material that they miss due to any absence.** Students may earn up to 8 extra points for attendance of instructor approved AUM Math Club and Computer Science Club meetings.

**Assignments:** All “Self-Test Exercises” from the textbook sections should be completed before the next class period. These exercises will not be collected nor graded. There will be several programming projects assigned throughout the semester. Generally, these assignments consist of a project in which the student will write C++ code to solve the given problem(s). The GNU C++ compiler will be used as a benchmark to determine if a program is compilable. All projects **MUST** be submitted on Blackboard. **NO LATE SUBMISSIONS WILL BE ACCEPTED.** In addition, several open-book, open-notes Blackboard quizzes will be given. **THE QUIZ MUST BE FINISHED WITHIN THE GIVEN PERIOD.**

**Grades:**

15% Midterm exam  
10% Quiz average  
45% Programming project average  
30% Comprehensive final exam

Final grades will be assigned as follows:

<b>90% – 100%</b>	<b>A</b>
<b>80% – 89%</b>	<b>B</b>
<b>70% – 79%</b>	<b>C</b>
<b>60% – 69%</b>	<b>D</b>
<b>0% – 59%</b>	<b>F</b>

\*All borderline cases will be determined according to student participation, class attendance, and overall student performance.

**Midterm Grade:** Your midterm grade will consist of the average of the midterm exam, programming project average, and the quiz grade average to date. *This grade is only meant to be an estimate of current progress in the class and can be quite different than your final class grade.*

**Makeup Work:** NO makeup tests are allowed. Should you miss a test, the final exam scaled to a 100 point grade will replace only **one** missed test for “excused” absences as outlined in the AUM Attendance Policy and only with appropriate verification. There are no makeups allowed for quizzes or programming projects. However, the **one** lowest quiz grade **and** programming project grade will **both** be dropped.

**Accommodation Notice:** It is the policy of AUM to provide appropriate modifications, accommodations or auxiliary aids to any student with a documented disability as defined by Section 504 of the Rehabilitation Act of 1973, as amended, and by the Americans with Disabilities Act (ADA) of 1990, and the ADA Amendments Act of 2008. It is the student's responsibility to request accommodations and provide appropriate documentation. Students with disabilities are encouraged to contact the Center for Disability Services (CDS) in Room 147 Taylor Center or call CDS at (334) 244-3631 prior to or upon enrollment at AUM.