Nashville State Community College
Information and Engineering Technologies
Computer Information Technology

Course Information:

Course Title: CISP 1010 Computer Science I
Credits 4
Class Hours 4

Course Description
An introduction to all aspects of the programming and problem-solving process and the elements of effective programming style. A high-level language will be used as a vehicle for introducing these concepts. Laboratory use of the computer in designing, coding, debugging, and executing programs is an integral part of the course. Prerequisite(s): Level 3 placement or higher in Math or MATH 1710.

Instructor Information:

Name: David Welch
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Office Location: C-214F
Office Hours:

Textbook & Other Materials:

Textbook(s): Starting Out With C++ From Control Structures through Objects 9th edition. The ISBN is 9780134402734 and this product is called Revel from Pearson. You will be given an access code when class starts to log into the Revel course.
Reference Materials:
Supplies: Microsoft Visual Studio, you can download it at Microsoft at this link

Course Outcomes:

Upon successful completion of this course, students should be able to:

- Use variables, control structures, methods and arrays to create programs.
- Implement the problem-solving process, and design algorithms
- Define the different parts of a computer and the C++ language syntax.
- Trouble-shoot and debug programs.

Course Competencies:

The following are detailed course competencies intended to support the course outcomes:

- Apply functional decomposition in the design of a program.
- Develop an algorithmic solution to solve a problem using sequence, selection, and iteration.
- Use simple data structures, such as arrays and strings, in an algorithmic solution.
- Demonstrate the use of procedural abstraction through the design and implementation of effective procedures and functions.
- The student should be able to explain the fundamental properties of the C language
- Construct a readable, well documented, and syntactically correct C program.
- The student should be able to combine the elements of the C language in developing a structured program.
- The student should be able to demonstrate the skills necessary to correctly compile, debug, and test programs
- Predict the state changes of a program in execution and trace its execution.

The following are general education competencies intended to support the course outcomes:

- Know how to locate, evaluate, and use information sources.
- Use critical thinking skills.

Topics to Be Covered:

- Chapter 1: Introduction to Computers and Programming
- Chapter 2: Introduction to C++
- Chapter 3: Expressions and Interactivity
- Chapter 4: Making Decisions
- Chapter 5: Loops and Files
- Chapter 6: Functions
- Chapter 7: Arrays and Vectors
- Chapter 8: Searching and Sorting Arrays
- Chapter 9: Pointers

Course Assessments:

The following performance assessments will be used to demonstrate students' understanding, knowledge, and skills:

- There will be (4) quizzes, each one covering two chapters in the text. Each quiz will be measuring how well the student has learned the material in each chapter.

- Students will individually design and implement (4) projects within required specifications based on established criteria for performance. Criteria for evaluation of performance will include accurate and efficient application of technical skills and knowledge.
- There will be (8) homework assignments that will contain multiple coding projects. The programs must be coded exactly as they are laid out in the pdf file or no points will be given. These are all or nothing homework projects.
- (Web course only) There will also be (4) discussions in the course. Each discussion, other than the introduction, is design to make the student think and understand where the IT industry is heading today. The discussions will be graded on participation and not on grammar or the amount of information posted.
- There will be a final exam.

Grading Policy:

- All assignments will have an assigned deadline
- All work must be submitted on time. Any work submitted late must have prior approval from the instructor to avoid any penalty. Any late work that is submitted without prior instructor approval will receive a 20% late penalty for the first week late, a 40% penalty for the second week late and no points will be given after the second week.
- To receive full credit, (on any program) all programming exercises must:
    - Be correct and meet the required specifications when turned in for credit.
    - Follow the rules of structured programming (including indentation)
    - Follow the generally accepted coding standards and syntax of the C language
    - Use descriptive names for defined variables, functions, etc.
    - Include appropriate documentation (comments)
    - Turn in each exercise by uploading the C/C++ source code into the proper assignment folder in NS Online. DO NOT ZIP FILES unless instructed to do so
- Students must do their own work on assigned individual homework, projects and quizzes. Any student caught copying another person's work or copying code or test answers from the internet will receive a 0 on that assignment and will be reported to the Dean of Students.

Grading Scale:

A = 89.5 - 100.0
B = 79.5 - 89.4
C = 69.5 - 79.4
D = 59.5 - 69.4
F < 59.5

FA
According to NSCC policy, an FA is awarded to students who do not officially withdraw from a course and do not attend after the cut-off date provided in the academic calendar. Students with an F average whose last date of attendance is before 11/2/2018 will receive an FA; students with an F average, whose last day of attendance is on or after 11/2/2018 will receive an F.
FN

An FN grade is awarded to students who never attended class.
W
The last day to withdraw from the course with a W is November 2nd.

Quizzes 50%

Homework 10%

Projects 15% (Web Only)

or

Projects 20% (On Ground Only)

Discussions 5% (Web Only)

Final Exam 20%

Total Grade 100%

Late Work Policy & Make-up Procedures for Missed Assignments and Work:

All work must be submitted on time. Any work submitted late must have prior approval from the instructor to avoid any penalty. Any late work that is submitted without prior instructor approval will receive a 20% late penalty for the first week late, a 40% penalty for the second week late and no points will be given after the second week.

Attendance Policy

A student is expected to attend all scheduled classes and laboratories. Absences in a course may affect a student's final grade. The student is responsible for all assigned work in the course regardless of excused or unexcused absences. Tardiness may also affect a student's final grade.

(Web class)

As aforementioned, reading the required text and following threaded discussions are a major part of this course and students are required to participate. In addition, emailing the instructor (inside the course shell) is another preferred method of teacher/student contact. If you have questions or need clarity, feel free to email me or other students for a different perspective. Respond promptly when receiving email from the instructor and feel free at any time to chat with other students who may be logged on at the same time as you are.

The calendar lists deadline dates as course milestones to keep students on track. Since this is an asynchronous environment, you are responsible for managing your time wisely and staying abreast of the proposed course schedule.

(All classes)

Any student who does not turn in assignments, participate in the course, or come to class for on ground or hybrid courses, for more than a (2) week period, without contacting the instructor, may be issued a grade of (F) or (FA).

Technology Statement

Nashville State's classes are considered to be web-enhanced. Faculty have an expectation that students will use a computer and the Internet to complete assignments, engage in online discussions, and access various course materials through Desire2Learn (D2L) learning management system course shells. Computers are available for student use at each campus during campus open hours.

D2L/NSOnline and myNSCC Email

It is the student's responsibility to check each of your D2L/NS Online course shells and myNSCC email on a regular basis. These are the official communication channels between the college and students. Students are responsible for the information communicated through those channels. D2L contains specific course information and myNSCC contains information important for other purposes.

ADA Compliance Statement

Nashville State complies with the Americans with Disabilities Act. If you wish to request any special accommodations for any courses in which you are enrolled, contact the Access Center at 615.353.3741 or 615.353.3721, or e-mail accesscenter@nscc.edu.

Classroom Misconduct

Nashville State Community College has a zero-tolerance policy for disruptive conduct in the classroom. Students whose behavior disrupts the classroom will be subject to disciplinary sanctions. The Nashville State Student Code of Conduct policy is available at https://s3.amazonaws.com/nscc.edu/PDFs/dean-students/Student_Code_of_Conduct_Policy.pdf. Please be aware that children are not allowed in class or to be left unattended on campus.

Academic Misconduct

Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. Students are responsible for understanding and abiding by the Academic Misconduct Policy in the Nashville State Student Code of Conduct that can be found at https://s3.amazonaws.com/nscc.edu/PDFs/dean-students/Student_Code_of_Conduct_Policy.pdf. In addition to other possible disciplinary sanctions that may be imposed through regular college procedures as a result of academic dishonesty the instructor has the authority to assign an "F" or a "Zero" for the exercise, paper, or examination or to assign an "F" for the course. Students may appeal through the appropriate college grade appeal procedures.

Academic Early Warning System

Nashville State Community College has implemented an Early Warning System to notify students via e-mail about academic problems such as poor classroom attendance, poor performance on assignments/tests, poor communication skills, late/missing assignments, and/or lack of classroom participation. *Please note that Early Warning Alerts do not affect a student's academic standing.

RAVE Emergency Alert System

Emergency events can happen at any time and Nashville State Community College wants to be able notify students if and when they occur. For this reason, all students have been enrolled in the free RAVE alert system. If you have not already done so, please log in at https://getrave.com/login/nscc to confirm and update your contact information and notification preferences. It is critical that your information be correct so that you will receive any emergency notifications. Your RAVE Username is your NSCC email address. If you've never received an email from RAVE with your password, or if you need to reset your password, select "Forgot your password?" and a new password will be emailed to you. Should the RAVE system indicate "user not found", select Register and create your own RAVE account.

Inclement Weather & Campus Closings

Nashville State will use the RAVE alert system to send a text message to students, staff, and faculty about adjusted hours of operation and/or closings at individual campuses. All students should check the Nashville State web site home page at www.nscc.edu for announcements on campus closures, which may vary from campus to campus. Campus closures will also be announced on local television stations. Students should use their own best judgment in determining whether to report to campus during inclement weather when classes are not cancelled.

Even when campuses are closed, students are still responsible for completing all assigned work. When classes are cancelled, faculty will post online assignments and any additional instructions in the D2L/NS Online course shell. Check D2L/NS Online for a message from your instructor regarding your online assignment requirements. Faculty have discretion over adjusting deadlines or due date for assignments, but students are responsible for completing all assigned work by the due date established by the instructor.

Class Cancellation Policy

If the class is cancelled, the instructor will notify all students by posting in the D2L/NS Online course, e-mailing through D2L/NS Online, and/or by posting a sign on the classroom door. In the event of class cancellation, students must access D2L/NS Online to complete classwork and the assignment that will be posted in the course D2L site.