

Nashville State Community College
Science, Technology, Engineering, and Mathematics (STEM) Division
Computer Information Technology
Master Course Syllabus

CISP 1020 Computer Science II

This syllabus sets forth the expectations for course content, work, and grading as well as expectations for student performance and conduct. The syllabus does not constitute a contract between the student and the instructor or the College. The information contained here is subject to change at any time. Students will be notified if any changes are made. Though changes are possible, it is expected that the course will be conducted as described in this syllabus.

Course Information:

Course Title: CISP-1020 Computer Science II

Credits: 4

Class Hours: 4 Class

Course Description:

A continuation of CISP-1010. Topics include programming in a high-level language, including programming concepts, good style, algorithms, documentation, and elementary data structures.

Prerequisite(s): CISP 1010 with a grade of "C" or higher

Instructor Information:

Name:

Office:

Phone:

Email:

Office Hours:

Required Textbook(s) & Other Materials:

Textbook(s): *Starting Out with C++ 8th Edition*, by Tony Gaddis, 2003, Addison-Wesley
ISBN: 978-0-13376-939-5

Software: Microsoft Visual Studio, you can download it at Microsoft Azure for Education.
JGrasp from JGrasp.org,
Dev from Bloodshed.net
Xcode is available as a **free** download from the **Mac** App Store

Once enrolled, all students should verify that they have the correct textbook and materials information by consulting the D2L/NS Online shell for the course. If you are registered with the Access Center and require an alternate format for the textbook and other course materials, please contact the Access Center at 615-353-3721, 615-353-3741, or accesscenter@nsc.edu.

Digital Course Materials (DCM):

To ensure the lowest cost for students, this course includes a materials fee. This means that some or all of the required textbooks and materials for this course are available through your *NS Online* course shell. When you register for this course, the charge will appear on your account. If you decide you do not want to purchase the course materials embedded in *NS Online*, you can opt out of the program until

September 6th, 2020. If you opt out, you will be responsible for obtaining the required course materials on your own.

Course Outcomes:

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

- Perform procedures necessary to display knowledge of object-oriented concepts, principles, and processes
- Execute processes necessary to display knowledge of the C++ language statements required for developing and implementing typical business applications
- Demonstrate use of generally accepted coding standards and syntax used in the implementation of C++ programs
- Explain similarities and differences of C++ as related to other programming languages
- Exhibit ability to design, develop, and assess performance in creating C++ programs individually and within teams

Course Competencies:

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

Programming assignments

- Functions
 - Set of 7 function programs covering function passing and returning values, overloading, default parameters and 'functions calling functions'
- Pointers
 - Programs combining pointers and arrays and passing and returning pointers from functions
- Arrays
 - Three array programs
- Chapter 11: - structures
 - Set of six structure programs covering structures and pointers
- Chapter 12: - advanced file manipulation
 - Using structures to read and write files
- Chapter 13A: - Introduction to classes, objects and overloading
 - At least four classes are developed. As each new topic is introduced, that topic is added to these initial classes. Some of the classes used are:
 - Date - all class topics can easily be added to a Date class
 - Color - holds the RGB information for a color
 - Coord - holds the XYZ coordinates of a point. Inherits the Color class
 - Card - used to describe a playing card and the class is used in arrays and the stack structure
 - Reservation – holds all the information for a hotel reservation. Has the Date class and the NameAndAddress class as data items
- Chapter 13B: - Constructors, destructors, dynamic allocation, arrays of objects
- Chapter 14: - Operator overloading
- Chapter 15: - Inheritance, polymorphism uses Color and Coord classes
- Chapter 16: - Exceptions
- Chapter 17: - Linked lists
- Chapter 18: - Stacks uses the Card class
- Chapter 19: - Recursion
- Chapter 20: - Binary tree

Topics to Be Covered:

- review - functions
- review - pointers
- review - arrays

- chapter 11 - structures
- chapter 12 - advanced file manipulation
- chapter 13A - introduction to overloading
- chapter 13B - constructors, destructors, dynamic allocation, arrays of objects
- chapter 14 - operator overloading
- chapter 15 - inheritance, polymorphism
- chapter 16 - exceptions
- chapter 17 - linked lists
- chapter 18 - stacks
- chapter 19 - recursion
- chapter 20 - binary tree

Course Assessments:

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

Tests and Quizzes

- 100 review - functions
- 100 review - pointers
- 100 review - arrays
- 100 chapter 11 - structures
- 100 chapter 12 - advanced file manipulation
- 100 chapter 13A - introduction to classes public, private, member functions
- 100 chapter 13B - constructors, destructors, dynamic allocation, arrays of objects
- 100 chapter 14 - operator overloading
- 100 chapter 15 - inheritance, polymorphism
- 100 chapter 16 - exceptions
- 100 chapter 17 - linked lists
- 100 chapter 18 - stacks
- 100 chapter 19 - recursion
- 100 chapter 20 - binary tree
- 300 final exam

1700

1300 Points from programming assignments

3000

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

- All programming exercises will have an assigned deadline
- No points are given for small programs turned in after the assigned deadline.
- Projects will have 3 due dates. 100%, 80% and 60%
- Make up quizzes can be given if a student misses a quiz and informs the instructor within a week of the quiz date

Grading Policy:

Requirements to pass the course:

- All programming exercises will have an assigned deadline
- No points are given for small programs turned in after the assigned deadline.
- Projects will have 3 due dates. 100%, 80% and 60%

- To receive full credit, (on any program) all programming exercises must:
 - Be correct and meet the required specifications when turned in for credit.
 - Have the format (headings and comments) of the provided skeleton program
 - A program that does not compile will receive no credit.
 - a small program that does produce the correct results (other than formatting) will receive no credit
 - projects will have partial credit due dates
 - 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. It is the student’s responsibility to copy the proper program into the proper folder.
 - Do not email me assignments
- Students are expected to do their own work on assigned individual exercises. Care should be taken that (if you are working with another student) you do not 'copy all or part of the assignment code.
- All tests and quizzes are closed book, notes, internet, etc. (see Academic Dishonesty)

Grading Scale:

- Your grade is calculated by adding all points earned in small programs, projects, tests, quizzes and attendance and dividing that total by the total number of possible points
- Grades will be determined as follows (**Average = Total points earned / Total points**):

Letter Grade	Percentage Range	Points
A	89.5 - 100.0	
B	79.5 - 89.4	
C	69.5 - 79.4	
D	59.5 - 69.4	
F	< 59.5	

FA Grade:

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. Please refer to the current academic calendar available on the Nashville State web site, look for the date that indicates it is the “Last Day to Earn F for Attendance (FA).” Students who stop attending on or before this date receive an FA; students who stop attending after this date receive an F. This date is (insert date here).

For online courses, attendance is defined by submission of assignments. Students who fail a course and whose last assignment is submitted on or before the FA date will earn an FA for the course. Students who fail a course and whose last assignment is submitted after the FA date will earn an F for the course. An FN is assigned to students who do not submit any assignments.

FN Grade:

An FN is awarded to students who never attended class.

W Grade:

The last day to withdraw from a course with a W is (insert date here).

Attendance Policy

The College is not an attendance taking institution as defined by 34 CFR 668.22(b)(1) in the Code of Federal Regulations; however, students are expected to attend all scheduled classes and laboratories.

- Absences in a course may affect a student's final grade.
- Tardiness may also affect a student's final grade.
- Students are responsible for all work/tests that occur during any missed class session(s) regardless of reason(s) for absence.
- Students who are sick or not well enough to attend class must notify the instructor as soon as possible before the scheduled class time, unless incapacitated or unable to do so. In that case, students must contact the instructor as soon as reasonably possible.
- If a student has an unavoidable conflict with a scheduled class session, students must notify the instructor, preferably before the class session, or as soon as possible.

For purposes of financial aid continued attendance is determined via engagement in the course. This can be accomplished in several ways including, but not limited to, continued attendance and/or participation in on-ground class sessions, participating in D2L as prompted (e.g., responding to an instructor's email, posting to a discussion board), and/or completing and submitting assignments.)

To the extent that attendance is kept in this class it is not for the purpose of the College but is instead associated with the instructor's individual grading rubric.

Technology Statement

- All classes at the College are web enhanced.
- It will be essential for students to have access to a computer and an internet connection to complete assignments, engage in online discussions, and access various course materials through D2L/NS Online course shells.
- Students may also be required to use free video conferencing platforms (ex: Zoom, Teams) for classes and meetings.
- Students will be responsible for appropriate dress while on video, to ensure a distraction free environment (mute sound as needed) and to ensure their background is neutral for others to view.
- If you have questions or concerns regarding access to a computer or internet resources, please contact your instructor. Additional information available: <https://www.nsc.edu/current-students/student-online-resources/access-to-internet-and-technology>.
- Certain publisher materials may not work on cellphones.

Computer Labs

Computers are available for student use at each campus during campus open hours. Open computer lab availability may vary from campus to campus.

Students should check NSCC website for current hours of operation.

D2L/NS Online and myNSCC

It is students' responsibility to check D2L/NS Online course shells for all enrolled courses and myNSCC, including student email, on a regular basis. These are the official communication channels between the college and students, who are responsible for the information communicated through those channels. D2L/NS Online contains specific course information and myNSCC contains information important for other purposes.

ADA Compliance Statement

Nashville State complies with the Americans with Disabilities Act (ADA). If you require 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@nsc.edu. If you are registered with the Access Center and require an alternate format for the textbook and other course materials, please contact the Access Center.

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 measures. Please review the [Nashville State Student Code of Conduct policy](#). 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. In addition to other possible disciplinary measures that may be applied 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. *(Each instructor will outline his/her expectations for academic integrity and provide individualized information about consequences for academic misconduct.)*

Academic Early Alert System

Nashville State Community College uses an Early Alert System to let students know of a faculty member's concern in one or more of these academic areas: lack of attendance, lack of classroom participation, late or missing assignments, and/or poor performance on assignments/tests. *Please note that Early Alerts do not affect a student's academic standing. If you receive an Early Alert email, please see your instructor and your academic advisor as soon as possible.

RAVE Emergency Alert System

Emergency events can happen at any time, and Nashville State Community College wants to 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://www.getrave.com/login/nsc> 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.

Student Wellness

The general well-being of students is an important component of their academic success. With this in mind, Nashville State Community College has several resources available to provide support when needed:

- Students with general, non-academic questions and concerns about COVID-19 may email virusinfo@nsc.edu.
- Five free telephone therapy sessions are available via Agape Counseling by calling 615-781-3000.
- Online tutoring is available via NetTutor within the D2L course shells.
- A comprehensive list of online student resources may be found at <https://www.nsc.edu/current-students/student-online-resources>
- A comprehensive list of student support services may be found at <https://www.nsc.edu/current-students/on-campus-resources/student-support-services>

Equity Statement

Nashville State Community College has a relentless commitment to the transformation of our institution through the intentional design of college experiences that expect and promote excellence from students, faculty, staff and administration. We consider equity to be an obligation of higher education. We strive to ensure that each student receives what that student needs to be successful, with goals of success beyond the classroom. We do this through an evidence-based and collaborative effort, understanding that our student population has diverse needs that must be addressed. We recognize that this effort may not always be comfortable and that partnering with students is the driving force to overcome barriers to success.

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.nsc.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.

Communication Statement

In this time of uncertainty due to COVID-19, communication between student and faculty is key. At times, situations arise for one or both that makes that communication difficult or delayed. This can include but is not limited to health issues and/or problems with technology. If you have attempted to contact your instructor, and have waited the turnaround time as outlined in the syllabus but have not yet received a response, please reach out for additional support using this survey:

<https://forms.gle/rM7rxFarksRFeA3b8>