Nashville State Community College
Information and Engineering Technology Division
Computer Information Systems Department
Master Syllabus

Course Name: Computer Science II
Course Number: CISP 1020
Course Prerequisite: CISP 1010
Credit Hours: 4 Credits; 4 Class Hours;
Availability Fall and Spring

Instructor Information
Instructor:
Office location:
Phone number:
E-Mail address:

Textbook and Other Materials:
Software: Microsoft Visual Studio, you can download it at Microsoft at this link
Student provided: The classroom and computer lab have Microsoft Visual Studio. This suite can be used for a C/C++ compiler.

Course Description
This course is a continuation of CISP 1010. It examines topics of programming in a high-level language, including programming concepts, good style, algorithms, documentation, and elementary data structures. Prerequisite(s): CISP 1010
Course Competencies:
The following are detailed course competencies intended to support the course outcomes:

• Describe and demonstrate basic search and sort algorithms.
• Describe and demonstrate text processing methods and classes.
• Describe and demonstrate inheritance, abstract classes and polymorphism.
• Describe and demonstrate exception handling and file I/O.
• Describe and demonstrate building a graphical user interface.
• Demonstrate querying a SQL database.

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 11. Structured Data
• Chapter 12. Advanced File Operations
• Chapter 13. Introduction to Classes
• Chapter 14. More About Classes
• Chapter 15. Inheritance, Polymorphism, and Virtual Functions
• Chapter 16. Exceptions, Templates, and the Standard Template Library (STL)
• Chapter 17. Linked Lists
• Chapter 18. Stacks and Queues
• Chapter 19. Recursion
• Chapter 20. Binary Trees
Learning Outcomes

Upon successful completion of this course, a student will 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

Performance Assessments

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

• There will be (10) quizzes, each one covering a different chapter in the text. Each quiz is multiple choice and will be measuring how well the student has learned the material in each chapter.
• Students will individually design and implement (7) 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.
• (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.

Grading Policy

• All programming exercises will have an assigned deadline
• No points are given for programs turned in after the assigned deadline
• To receive full credit, (on any program) all programming exercises must:
  o Be correct and meet the required specifications when turned in for credit
  o Follow the rules of structured programming (including indentation)
  o Follow the generally accepted coding standards and syntax of the C language
  o Use descriptive names for defined variables, functions, etc.
  o Include appropriate documentation (comments)
  o 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 are expected to do their own work on assigned individual exercises Tests and quizzes
Grading Scale:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>70%</td>
</tr>
<tr>
<td>Projects</td>
<td>20% (Web Only)</td>
</tr>
<tr>
<td>or Projects</td>
<td>30% (On Ground or Hybrid Only)</td>
</tr>
<tr>
<td>Discussions</td>
<td>10% (Web Only)</td>
</tr>
<tr>
<td>Total Grade</td>
<td>100%</td>
</tr>
</tbody>
</table>

Grades will be determined as follows (Average = Total points earned / Total points):

<table>
<thead>
<tr>
<th>Grade</th>
<th>Average</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>89.5 - 100.0</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>79.5 - 89.4</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>69.5 - 79.4</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>59.5 - 69.4</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>&lt; 59.5</td>
<td></td>
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</tbody>
</table>

Attendance Policy

(All class)

A student is expected to attend all scheduled classes and laboratories. Each instructor will formulate an attendance policy and provide it on the course syllabus. Absences are counted from the first scheduled meeting of the class, and it is the responsibility of each student to know the attendance policy of each instructor in whose class he/she is enrolled. If a student is absent from a class, he/she should give an advanced explanation to the instructor. 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.

Revised 4/2015
(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 FA.

Failure to attend class will result in a final course grade of “FA” or “FN” (see explanation below) depending on the individual instructor’s course policy.
FA= failure, attendance-related (unofficial withdrawal) Last recorded date of attendance required.
FN= failure, never attended class (unofficial withdrawal)

Student Communication Channels
It is the student’s responsibility to check D2L 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 Student Disabilities Office at (615) 353-3721.

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. Please consult your Student Handbook for more specific details.

The instructor has primary responsibility for control over classroom behavior and maintenance of academic integrity. He/she can order temporary removal or exclusion from the classroom of any student engaged in disruptive conduct or in conduct which violates the general rules and regulations of the College.

Disruptive behavior in the classroom may be defined as, but is not limited to, behavior that obstructs or disrupts the learning environment (e.g., offensive language, harassment of students and professors, repeated outbursts from a student which disrupt the flow of instruction or prevent concentration on the subject taught, failure to cooperate in maintaining classroom decorum, etc.), the continued use of any electronic or other noise or light emitting device which disturbs others (e.g., disturbing noises from beepers, cell phones, palm pilots, lap-top computers, games, etc.).

Please be aware that children are not allowed in class or unattended on campus.

Academic Dishonesty (Honor Code)
Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. “Plagiarism may result from: (1) failing to cite quotations and borrowed ideas, (2) failing to enclose borrowed language in quotation marks, and (3) failing to put summaries and paraphrases in your own words (A Writer’s Reference 331). Academic dishonesty may be defined as, but is not limited to, intentionally trying to deceive by claiming credit for the work of another person, using information from a web page or source without citing the reference,
fraudulently using someone else’s work on an exam, paper, or assignment, recycling your own work from another course, purchasing papers or materials from another source and presenting them as your own, attempting to obtain exams/materials/assignments in advance of the date of administration by the instructor, impersonating someone else in a testing situation, providing confidential test information to someone else, submitting the same assignment in two different classes without requesting both instructor’s permission, allowing someone else to copy or use your work, using someone else’s work to complete your own, altering documents, transcripts or grades, and forging a faculty/staff member’s signature.

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.

**Inclement Weather Policy**

In the event of an inclement weather event, check the Nashville State web site home page at www.nscc.edu for announcements on campus closures. Campus closures will also be announced on local television stations (channels 2, 4, 5, and 17).

When classes are cancelled, an online assignment will be posted in NS Online. Check your NS Online email for a message from your instructor regarding your online assignment requirements. Even though classes may be cancelled, some areas, i.e. Testing Center, may be open. However, you should check before commuting to campus.

The Vice President for Academic Affairs and the Director of Security are responsible for cancellation decisions during an inclement weather event for the Nashville State main campus and the Southeast campus. Cookeville, Waverly, and Dickson Campus Directors will make class cancellation decisions based on conditions in their respective areas. Decisions about class cancellations are based on actual conditions, not forecasts. The perspective used for making decisions is that of the college as an employer, not as a K-12 institution. Students should use their own best judgment in determining whether to report to campus during inclement weather when classes are not cancelled.