Syllabus for
COSC 111
Intro to Computer Science
(3-0-3)

Course Description
This course is an introductory study of fundamental computer concepts for computer science majors. The course covers parts of a computer, how computers store and process information, and how operating systems and common software applications work. The terminologies, number bases, and standardized codes involved in processing digital information are studied. Orientation to the Windows operating system and its basic commands is included, along with some simple word processing. Problem solving and programming techniques are introduced using the C++ language.

Course Delivery Method: Online/Blackboard
HelpDesk: 1-304-929-6725

Required Text(s)

CENGAGE UNLIMITED

<table>
<thead>
<tr>
<th>Instant Access</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>CENGAGE UNLIMITED - 1 Semester Access</td>
<td>$119.99</td>
</tr>
<tr>
<td>CENGAGE UNLIMITED - 1 Year Access</td>
<td>$179.99</td>
</tr>
<tr>
<td>CENGAGE UNLIMITED - 2 Year Access</td>
<td>$239.99</td>
</tr>
</tbody>
</table>

New River Community and Technical College provides accessible, affordable, quality education and workforce programs to meet the needs of the region it serves.
COURSE OUTLINE:
- History and Social Implications of Computing
- Computing Security and Ethics
- Computer Architecture
- Networks
- The Internet
- Database Fundamentals
- Numbering Systems and Data Representations
- Data Structures
- Operating Systems
- File Structures
- Human-Computer Interface
- Problem Solving and Debugging
- Software Engineering

COURSE STUDENT LEARNING OUTCOMES: At the conclusion of this course, the successful student will be able to:

1. Describe the information age and recognize the associated socio-technical concepts
2. Define and describe information, information processing, and information problem solving
   Identify and analyze information systems from a functional and social perspective
3. Trace the history of computers and information systems
4. Define and describe the differences between individual, group, organizational, and global information systems
5. Identify and describe the fundamentals of databases within information systems and processing
6. Identify and describe current and emerging technologies within information systems and processing
7. Describe the role of networks within information systems and information processing
8. Define and explain the role of object-oriented technologies within information systems today
9. Discuss the importance of Information Systems/Information Technology Policy within organizations
10. Discuss the processes surrounding IS/IT strategy and planning
11. Discuss the process of and issues surrounding IS/IT Management
12. Demonstrate a basic knowledge of programming languages and programming concepts in C++.
Procedures for Evaluation

Grading Components and Weights:

Grades will be based on the cumulative of the following:
Weekly Assignments 15 pts each
Discussion Questions 5 pts each
Midterm 100 pts
Final Exam 100 pts

Grading Scale:

Grades will be derived from a cumulative point total based on the following criteria:

A=90-100  B=80-89  C=70-79  D=60-69  F= Below 59

Your grade is your responsibility. If you decide not to finish this class, it is your responsibility to fill out the appropriate paperwork to drop the class. Don't assume it will be done for you. In addition, the gradebook feature of Blackboard has a reputation for being inaccurate. If you want to know your grade it is suggested that you calculate it manually (pts earned divided by pts possible on that date).

Assessment for Continuous Improvement

The purpose of assessment for continuous improvement is to ensure that teaching methods are appropriate to facilitating your understanding of the subject matter and mastery of its application. A variety of assessments will be used throughout the course to allow the Instructor to determine whether you are individually and collectively developing a full understanding of key concepts, theories, and ideas and their application. These assessments will allow the Instructor to modify presentation of the material accordingly.

New River Classroom/Course Policies

Academic Integrity/Honor Code: As a member of an academic community, you are expected to adhere to an academic code of conduct and not engage in plagiarism, cheating, falsifying information or records, or any other such activity. Failure to adhere to this code of conduct will result in sanctions and/or disciplinary action up to and including dismissal from the College.

Assignment Submission Guidelines Homework and assignments will not be accepted after the due date. All work is to be submitted through Blackboard. DO NOT email homework to the instructor.
**Attendance**: You are expected to attend all sessions of course for which you are enrolled. Regular attendance is required for satisfactory completion. There are two types of absences recognized by the College as excused: (1) absence resulting from participation in an activity where you are officially representing the College (institutional); and (2) absence caused by unforeseeable and unavoidable circumstance which is beyond your control. All other absences are considered willful, and will not count as excused. It is your responsibility to provide your Instructor with a proper explanation and documentation of institutional or unavoidable absences. The makeup of any work that was missed is your responsibility, and it is up to your Instructor as to whether or not to accept makeup work for unexcused absences.

**Make-up Testing**: If you miss a test date, the test must be taken at the next class you are present. If you have an unavoidable conflict, please inform me BEFORE the test to arrange another time.

All policies and procedures as stated in the current edition of the New River Community & Technical College Catalogue are applicable to this class. In addition, please note the following:

- Failures to take an exam or quiz results in a zero score for that exam or quiz. **Students are expected to be in class and participating.**
- Failure to turn in an assignment **on time** results in a zero score for that assignment. Material turned in will be output from a word processor, organized, and neat, i.e., readable and easy to follow. Individual assignments may be weighted differently, e.g., one may be worth 10 total points, another 30. Material turned in should identify the student, class, and specific assignment.
- Policies regarding academic honesty (cheating, plagiarism, and so on) as stated in the current New River Community & Technical College General Catalogue are applicable to all work done for this class. Any unauthorized duplication of testing material will result in dismissal from the class with a failing grade. This should not be construed as to discourage teamwork and sharing of information and knowledge as appropriate.
- Even in the event of excused absences, make-up work is the responsibility of the student and at the discretion of the instructor.

**Participation and Engagement**: In accordance with the guidelines for awarding academic credit, it is expected that you will spend two hours on completing assignments and other activities for every hour of classroom time, lecture, or instructor facilitated event per week.
Additional Information

Inclement Weather/Emergency Situations
There are a number of ways to find out if classes are canceled due to inclement weather. You will find complete information in the Inclement Weather and Emergency Procedure in the Student Handbook or on the New River website at the following link: http://www.newriver.edu/images/stories/hr/procedures/procedure_3-inclement_weather_1-2014.pdf.

New River Community and Technical College Social Justice Statement: “Consistent with its comprehensive mission and recognizing that the development of human potential is a fundamental goal in a democratic society, the Board of Governors for New River Community and Technical College promotes an educational system that values cultural and ethnic diversity and understanding; that provides for the preparation of students for full and meaningful participation in a changing world; and that promotes equitable and fair treatment in every aspect of campus life and employment for all persons regardless of race, national origin, gender, sexual preference, sexual orientation, age, religion, veteran status or disability.”

Student Success Centers are located at each campus. Services provided are:

- Tutoring - Individual, group and online options
- Career Counseling
- Academic Advising
- Life Skills Advising
- Disability Services
- Placement Testing
- Make-up testing - appointment required, walk-ins will be accommodated when space is available
- Study Groups
- Workshops

ADA (Americans with Disabilities Act) Services
Students with special needs are encouraged to contact the Educational Counselor in the Student Success Center on their campus before the start of the semester and request accommodations. If you have documented disabilities, you are eligible for ADA accommodations if they meet the conditions of Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. You must self-identify yourself and
provide appropriate written documentation of your disability. If you qualify for services, you should work closely with the Educational Counselor to determine potential accommodations afforded to participate in the academic programs and services. Reasonable modifications in policies, practices, and procedures are implemented to assure equal access to individuals with disabilities. The Educational Counselor will prepare the “Notification of Need for Accommodation” letters for the faculty contact. Should you experience a temporary disability during the semester, you must provide reasonable and timely notice of a need for accommodations and services substantiated by appropriate documentation. Information provided is treated as confidential and is not released to anyone without your prior consent. Further information is available in the Student Handbook located on the College’s website at: www.newriver.edu/current-students/student-services/student-resources.

Library Services
Library information services are available to all New River Community and Technical College students through the College’s Library located on the Greenbrier Valley Campus, Greenbrier County Public Library, the Summersville Public Library, the Raleigh County Public Library, the Concord University Library, the Princeton Public Library, the Craft Memorial Library in Bluefield, WV and the Bluefield State College Library. Each library is a member of the Mountain Library Network (MLN) and serves all MLN card holders. Library cards for these facilities are free and their collections are available through interlibrary loan. The Greenbrier Valley Campus library web page (http://www.newriver.edu/current-students/library-services) offers electronic library services to all users such as Academic OneFile (full text and summary peer-reviewed journal and popular magazine article databases and the Literature Resource Center) the Lexis-Nexis Academic (full text national and international newspaper articles, legal, business, and biographical databases), the Charleston Newspaper Index (full text), links to regional newspapers, CINAHL (nursing and allied health subjects), and Interlibrary Loan Request forms. MLN affiliated libraries offer journal databases through the West Virginia Library Commission. For further information and assistance, contact the College’s Librarian at (304) 647-6575.