COURSE DESCRIPTION
This course introduces the router as a unique computer application essential for wide area networks (WANs) to operate. The course focuses on initial router configuration, Cisco IOS software management, routing protocol configuration, TCP/IP, and Access Control Lists (ACLs).

COURSE GOALS
- Master basic content: OSI model, internetworking devices, IP addressing.
- Master lab skills: router testing, configuration, and debug.
- Master documentation skills: flowchart of CLI configuration for a router.
- Master people skills: working in engineering teams, self and project management, quiz and presentations.
- Achieve awareness and access: basic technological literacy, ability to design, install and maintain -internetworks.

REQUIRED COURSE BOOKS and SUPPLIES
Cisco™ Networking Academy Program: CCNA 1 and 2 Companion Guide, Revised Third Edition Cisco™ Networking Academy Program: CCNA 1 and 2 Lab Companion, Volume I, Revised Third Edition *** Students are required to supply their own High Density Formatted 1.44 MB 3.5 inch disks for class. You may elect to purchase and use a USB Flash Drive instead of floppies.*** Students are required to purchase a hard-bound blank journal for recording lab observances.

PERFORMANCE EXPECTATIONS AND ATTENDANCE
The following are the primary expectations of all students: self-directed work toward completion of assignments, on-time completion of assignments, attendance at all classes, and effective personal leadership and management.

Note: This course is LAB Intensive; always bring your lab companion book to class!!

Outline of Instruction
1. WANs and Routers
2. Introduction to the Router
3. Configuring a Router
4. Learning about other devices
5. Managing Cisco IOS S/W
6. Routing and Routing Protocols
7. Distance Vector Protocols
8. TCP/IP Error Control
9. Basic Router Troubleshooting
10. Intermediate TCP/IP
11. Access Control Lists

Lab Rules
- No food or drinks in the labs at any time.
- Cell phones - OFF or vibrate

- Acceptable use of the computers in the labs, including access to the Internet and electronic mail as delineated in the 2004-2005 CFCC Catalog and Student handbook, pages 31 - 32.

**ATTENDANCE REQUIREMENTS**

“Absences seriously disrupt students’ progress in a class and diminish the quality of group interaction. Students are expected to punctually attend all lecture and laboratory sessions in the courses for which they are registered. Late arrivals and/or early departures may count toward total absences in classes.”

**Students must be in attendance at least eighty (80%) percent of the clock hours of a course to receive credit for the course.** Those who do not meet minimum attendance requirements will be given the grade of “F, which will be computed in the student’s grade point average as a failing grade.” *(CFCC 2004-2005 Catalog and Student Handbook, page 15)* Students may accrue 4 absences during the conduct of the course with no impact on their final grade. For every absence after 4, the student will lose 1 point per hour missed on their final grade. Upon reaching 6 absences (16 hours), they will be dropped from the course with a grade of "F". Those students with perfect attendance in the course will be awarded 2 points on their final grade. **Tardiness.** Students who are not physically in the classroom when roll is taken will be considered to be absent. If you arrive shortly after roll, you will be responsible for ensuring that I change your absence to a tardy. Every three tardies will result in a one-point deduction from the final grade.

**GRADING SCALE AND EXAM GRADE DISTRIBUTION**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>92-100</td>
<td>Skill-based Exam</td>
<td>10%</td>
</tr>
<tr>
<td>B</td>
<td>84-91</td>
<td>Lab Assignments</td>
<td>Pass/Fail</td>
</tr>
<tr>
<td>C</td>
<td>76-83</td>
<td>Journal</td>
<td>10%</td>
</tr>
<tr>
<td>D</td>
<td>68-75</td>
<td>Chapter Exams</td>
<td>30%</td>
</tr>
<tr>
<td>F</td>
<td>0-67</td>
<td>Final Exam</td>
<td>50%</td>
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</tbody>
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**NOTE:** Failure to pass the Lab Assignments and the Skill-based Exam will result in failure of the course.

**EXAMS**

*** Students are expected to take every exam on the day that it is administered. In the event that you are given the opportunity to take an exam twice, the two grades received for the exam will be averaged together.

**DISCLAIMER**

Information contained in this syllabus was, to the best knowledge of the instructor, considered correct and complete when distributed for use at the beginning of the semester. However, this syllabus should not be considered a contract between Cape Fear Community College and any student, nor between the instructor and any student. The instructor reserves the right, acting within the policies and procedures of the college, to make changes in course content or instructional techniques without notice or obligation.