Course Title:
INF-258 – TCP/IP

Credits/Hours:
3 credits/2 hours lecture, 2-hour lab.

Course Description:
TCP/IP examines Transmission Control Protocol/Internet Protocol (TCP/IP) concepts with emphasis on planning, deploying and managing a TCP/IP network. Topics include the configuration and logistics of TCP/IP networks; IP addressing and subnetting; Multicast IP; Mobile IP; IPv6; FTP and Remote Access Protocol (PPP and SLIP). Students will learn how to troubleshoot and manage TCP/IP networks using a packet sniffer, TCP/IP utilities, and protocols such as Internet Control Message Protocol (ICMP).

Textbooks and Supplies:
See course outline

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<th>Student Learning Objectives</th>
<th>Assessment Measures</th>
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<tr>
<td>1. Install Windows 2000 Server</td>
<td>Lab activity</td>
</tr>
<tr>
<td>2. Administer TCP/IP addressing</td>
<td>Exam and Lab</td>
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<td>3. Configure and administer subnets</td>
<td>Lab activity</td>
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<td>4. Configure Variable Length Subnet Masks (VLSM)</td>
<td>Written exercises</td>
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<td>5. Configure and administer DHCP, DNS, WINS</td>
<td>Exam and Lab</td>
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<tr>
<th>College Competencies:</th>
<th>Student Learning Objective:</th>
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<tr>
<td>1. Technological and Information Literacy – Students will demonstrate computer literacy, and will be able to retrieve, organize and analyze information using both technological and traditional means</td>
<td>All</td>
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<tr>
<td>2. Applied Knowledge – Students will demonstrate an understanding of, and apply, bodies of knowledge within and across disciplines.</td>
<td>All</td>
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<td>3. Critical Thinking – Students will actively reflect on, reason about, and form independent judgments on a variety of ideas and information, and use these skills to guide their beliefs and actions.</td>
<td>3,4</td>
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</table>
Course Content:
See course outline

Assessment:
An average of 60% from combined assessment measures is required
to demonstrate proficiency in course material.

Exams 50%
Final Exam 25%
Lab Activity 25%

Testing:
Students are required to take examinations on the day and time they are scheduled. If special
circumstances require a test schedule adjustment, this must be worked out in advance with the
instructor. All exam scores (Exam 1, Exam 2, Exam 3, Cumulative Final) will be used when computing
the student's final exam average

The instructor can be reached by telephone (see course outline for appropriate phone number), e-
mail, or written note left in the Divisional Office (during the day) A-306C or the Evening Office L-113.
If there are extreme circumstances (documentation may be required) that prevent a student from taking
a test according to the published schedule, use one of the above options to contact the instructor
before the next class. An arrangement for a special testing schedule is solely at the discretion of the
instructor. A student who waits for the next class session to speak with the instructor will not be
accommodated with a special test schedule.

It is the student’s responsibility to finish an examination correctly and completely. Therefore, when
computer Scantron forms are used as answer sheets, the student must use a Number 2 lead pencil
and erase all stray marks completely. The burden of proper erasure is at test taking time. Once the
examinations are returned to the students, there will be no grade adjustments made due to
inappropriate completion of the response form.

Laboratory Work:
Laboratory assignments are hands-on productions that show the instructor that the student can
competently use specified software. It is important that the student attend all lab sessions. The
student should read the scheduled assignment in the text prior to coming to lab class.

It is anticipated that students will spend at least four hours per week in the free-time computer room
perfecting their skills and completing their lab assignments. The lab assignments are required for
grading. They must be submitted on the assignment due date, and cannot be handed in late.
Acceptance of late laboratory assignments is solely at the discretion of the instructor.

Homework:
In addition to any homework assignment given during class, it is a standing assignment that the
student read each chapter of the book prior to its discussion. Following the class discussion, the
student should reread the material and work with the exercises throughout the text. It is anticipated that
students will spend at least 4-hours per week reading the text and working with the exercises and
supplemental resources.

Policies:
- Lateness – The roll will be taken at the beginning of class. If the student is not in attendance at that time, he/she will be carried in the roll book as being absent unless the instructor is notified immediately after class. Attendance sheets cannot be adjusted at following class meetings.

- The student must adhere to all college polices. Due to the nature of this course, it is recommended that the student review the policy titled “Acceptable Information Technology Use at Bergen Community College”.

- The use of portable electronic devices such as pagers and cell phones is not permitted while class is in session. Please be sure to silence electronic devices before entering class.

- The use of audio CD or tape players, radios, and college computers to play music during class is prohibited.

- Students are expected to demonstrate listening, reading, note taking, and writing skills. The student will need to take notes during class discussions and understand and follow verbal and written directions. All assignments and correspondence with the instructor (including e-mail) must be well written in full sentence format. Proper paragraph format must be used for all postings to the student bulletin board (if applicable).

- The subject line of all e-mail correspondence to the instructor must contain the course number and section and student’s name. Any e-mail received without this information will not be opened.

- Plagiarism in any form will be treated as a failure to complete an assignment. All work submitted should reflect individual effort by the student.

- In borderline cases that arise in almost every class each semester a student’s attendance, class participation, attitude, and observed effort will be considered in helping to determine the student’s final grade.

If the instructor does not appear after 20 minutes following the scheduled time, students should generate an attendance list. One volunteer member need deliver the list, containing the course title, date, and instructor’s name, to the Evening Office L-113 or to the Divisional Office (during the day) A-306C.

Additional policy and assessment information may be distributed by individual instructors.