Instructor: Dr. Mihail Cutitaru (Dr. C)
cutitarum@mst.edu (preferred)
128 EECH
(573) 341-6101

Office Hours: TR 11:30AM - 12:30PM, other times by appointment

Prerequisites: CpE 3150 or as determined by the instructor, competence in the basics of computer hardware


Course Website: blackboard.mst.edu

Course Goals/Objectives: To introduce design of computer networks, with emphasis on network architecture, protocols and standards, performance considerations, and network technologies.

By the end of the course, you should be able to:

- Describe an overview of communication networks, explaining the general principles governing the transport, network, medium access control, data link, and physical layers.
- Describe how these layers operate and interact and how the major functions of each layer are affected by network speed and use requirements.
- Investigate the limitations of current networks (e.g. Internet, Ethernet, ATM, wireless LANs).
- Evaluate the performance of a network and suggest improvements employing new technologies.

Course Outline:

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<th>Topic</th>
<th>Reading Assignment</th>
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<tr>
<td>Introduction</td>
<td>Chapter 1</td>
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<td>Physical Layer</td>
<td>Chapter 2</td>
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<td>Data Link Layer</td>
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<td>Medium Access Control Sublayer</td>
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<td>Internet Addressing and Transport Protocols</td>
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Grading:

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<td>Exams (2)</td>
<td>40(%)</td>
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<td>Homework</td>
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<td>Projects</td>
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<td>Final</td>
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Letter Grade | Score
-------------|-------
A            | [90-100] (%)
B            | [80-90)
C            | [70-80)
D            | [60-70)
F            | < 60

Homework Policy

There will be about 5 homework assignments in the course. Homework assignments are due AT THE BEGINNING OF CLASS on the due date. NO LATE HOMEWORK WILL BE ACCEPTED. If you are a distance student, your homework submission will be accepted via email or uploaded to Blackboard/Canvas as an Assignment.

Homework will include selected problems from the text and from the instructor. Assignments will be posted on the course website and you will be informed when it is available. Work/derivations must be shown for any partial credit to be awarded.

The work you submit on homework assignments must be your own. You may collaborate with other students on understanding the requirements of a homework or general approaches to solve it, but the solutions you hand in must be your own work. Any effectively identical submissions will receive a failing grade and will be reported as academic dishonesty.

Attendance Policy

Attendance is not mandatory but very strongly encouraged as this is a very fast-paced course. You are fully responsible for the material covered in the class that you missed. Attendance will be recorded for randomly-selected class sessions. Attendance on the day of the exam is expected. Prior notification is required if unable to attend an examination period.

Academic Integrity

Academic integrity is an important aspect of succeeding at Missouri S&T and beyond. Academic dishonesty, such as cheating, plagiarism, or sabotage is prohibited and will be reported to University administration for further action. Cheating on an exam or assignments will result in a score of zero for the assignment/exam. If you are unsure if a certain act is considered dishonest, please contact me.
Disability Support Services

If you have a documented disability and anticipate needing special accommodations in this course, you are strongly encouraged to meet with me early in the semester. You will need to request that Disability Services staff send a letter to me verifying your disability and specifying the accommodation you will need before I can arrange your accommodation.

Additional Help and Feedback

Do not hesitate to come to my office during office hours or by appointment to discuss a homework problem or any aspect of the course. Your feedback is critical to my success as an instructor. I will periodically solicit your anonymous feedback for continuous improvement to the course. Your comments are always welcome and appreciated throughout the semester.