Instructor: Bob Roos  
Office: Alden Hall 106  

Office Hours:  
Mon. 10–11:30 a.m.; 2:30–4 p.m.  
Tues. 9–10:30 a.m.  
Weds. 10–11:30 a.m.; 2:30–4 p.m.  
Thur. 9–10:30 a.m.  
and by appointment (use e-mail to request times outside my normal office hours)

Go to [http://cs.allegheny.edu/sites/rroos/schedule.html](http://cs.allegheny.edu/sites/rroos/schedule.html) to schedule office hour appointments. To schedule an appointment outside my regular office hours, please email me with your request.

Office phone: 814-332-2883 (on campus: extension 2883).  
Email: [rroos@allegheny.edu](mailto:rroos@allegheny.edu)

Time and Place:  
Lecture: MWF 9:00–9:50 a.m., Alden 109  
Lab: Th 2:30–4:20 p.m., Alden 109

Final Exam: Exam Group A—Thur., May 5, 9 a.m.–12 noon


Course Description. Here is the description printed in the College Catalogue:

An introduction to the theory and techniques of data communications and network design and analysis. Topics include data communications concepts, layered network architectures, local and wide area networks, protocols, switching, routing, security, and areas of current interest. The protocols of the Internet and World Wide Web are used throughout to illustrate networking concepts. Students complete a large programming project involving some aspect of networking. One laboratory per week. PREREQUISITE: CMPSC 112.
Learning Objectives: By the end of this course, you should:

• understand the basic principles underlying network communication in general (representing data, packet switching, routing, communication media, sources of delay, etc.)

• understand the main protocols of the Internet, such as DNS, TCP, IP, and the layered structure of the TCP/IP protocol stack

• understand the underlying details of some of the major Internet applications (e.g., email, World Wide Web, file transfer)

• be able to program network communication applications using sockets

Grading: (All percentages are approximate!)

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>In-class exercises</td>
<td>approx. 10%</td>
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<tr>
<td>Homework (programming assignments and reports)</td>
<td>approx. 30%</td>
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<tr>
<td>Regular quizzes on readings</td>
<td>approx. 10%</td>
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<tr>
<td>Two mid-term exams</td>
<td>approx. 20% (10% each)</td>
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<tr>
<td>Final Exam (Exam Code A—Thu., 5 May, 9 a.m.–12 noon)</td>
<td>approx. 15%</td>
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<tr>
<td>Final Project</td>
<td>approx. 10%</td>
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<td>Attendance, etc.</td>
<td>approx. 5%</td>
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Attendance:

If you miss class for any reason (yes, even sleeping in or forgetting what day it is!), please explain your absence to me in writing (e.g., an email) as soon as you are able. Frequent or prolonged absences due to illness should be documented by the Health Center, the Dean of Students’ Office, or the office of Student Disability Services. If other circumstances arise that are beyond your control, please contact the Dean of Students office and explain the situation to them so that they can notify the instructors of your courses. Even if your reason for missing class would not be considered a justifiable excuse, please write to me and explain any absences.

Late Policy: Every assignment has a due date and time. Failure to hand in an assignment by the deadline will result in a late submission penalty. Assignments handed in within one week after the deadline will receive automatic grade reductions of 15% (in addition to any points deducted for errors). Assignments handed in within two weeks after the deadline, but not within one week, will receive automatic grade reductions of 30% (in addition to any points deducted for errors). Assignments will not be accepted more than two weeks past the deadline unless you can provide clear evidence of extenuating circumstances.

Late submission of assignments creates serious fairness issues for the members of the class who hand in their work on time; it is not fair or reasonable for someone to receive a non-zero grade on an assignment that is handed in weeks after everyone else has submitted their work. Any extenuating circumstances must be documented through the Learning Commons, Counseling Center, Dean of Students office, Health Center, or other appropriate source.
Email:

“The use of email is a primary method of communication on campus. ... All students are provided with a campus email account and address while enrolled at Allegheny and are expected to check the account on a regular basis.” [p. 9, The Compass Student Handbook 2015–2016]

I will sometimes need to send out announcements to the class with things such as clarifications, changes in the schedule, or other matters. I will use your Allegheny College email account to do this. It is your responsibility to check your email (I suggest at least once a day) and to make certain that your email is working correctly (able to send and receive messages).

Special Needs and Disabilities:

Students with disabilities who believe they may need accommodations in this class are encouraged to contact Student Disability Services (SDS) at (814) 332-2898. SDS is part of the Learning Commons and is located in Pelletier Library. Please do this as soon as possible to ensure that such accommodations are implemented in a timely fashion.

Honor Code:

All students enrolled at Allegheny College are bound by the Honor Code. It is expected that your behavior will reflect that commitment. To this end, we expect that you will adhere to the following Department Policy:

**Department of Computer Science Honor Code Policy**

It is recognized that an important part of the learning process in any course, and particularly in computer science, derives from thoughtful discussions with teachers, student assistants, and fellow students. Such dialogue is encouraged. However, it is necessary to distinguish carefully between the student who discusses the principles underlying a problem with others, and the student who produces assignments that are identical to, or merely variations on, someone else’s work. It will therefore be understood that all assignments submitted to faculty of the Department of Computer Science are to be the original work of the student submitting the assignment, and should be signed in accordance with the provisions of the Honor Code. Appropriate action will be taken when assignments give evidence that they were derived from the work of others.

On all documents handed in for a grade, whether submitted in hard copy or electronically, you must have your name at the beginning of the document, followed by the words:

This work is mine unless otherwise cited.

If the document is submitted in hard-copy form, you should also include a hand-written signature after the honor code pledge.

If your document does not include both your name and the Honor Code pledge, it will be returned to you ungraded and you will need to resubmit it (most likely incurring a late penalty).
Important Dates

- Friday, 12 February: First midterm exam
- Friday, 11 March: Second midterm exam
- Tuesday, 5 April: Gator Day
- Thursday, 5 May, 9 a.m.–noon: Final exam