

**CS 365 Computer Networking**  
**McGinnis, Jacob**

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**Mission Statement:** The mission of Park University, an entrepreneurial institution of learning, is to provide access to academic excellence, which will prepare learners to think critically, communicate effectively and engage in lifelong learning while serving a global community.

**Vision Statement:** Park University will be a renowned international leader in providing innovative educational opportunities for learners within the global society.

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<b>Course</b>	CS 365 Computer Networking
<b>Semester</b>	Portfolio
<b>Faculty</b>	McGinnis, Jacob
<b>Title</b>	Senior Instructor
<b>Degrees/Certificates</b>	BS Electricity/Electronics MS Industrial Management Cisco CCSI 94-100
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<b>Class Days</b>	TBA
<b>Class Time</b>	TBA
<b>Credit Hours</b>	3

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**Textbook:**

1. Computer Networking, 4th edition, by James Kurose and Keith Ross. ISBN-0-321-49770-8.
2. Ability to run Java Applet: In each weekly homework assignment, you are required to execute a number of Java Applets associated with the textbook. If your machine does not automatically enable Java Applet, you will need to download and install J2RE (Java 2 Runtime Environment, Standard Edition) from <http://java.sun.com>.

To access the Applet exercises, go to the following web site: <http://www.aw-bc.com/kurose-ross/>

Textbooks can be purchased through the [MBS bookstore](#)  
Textbooks can be purchased through the [Parkville Bookstore](#)

**Additional Resources:**

[McAfee Memorial Library](#) - Online information, links, electronic databases and the Online catalog. Contact the library for further assistance [via email](#) or at 800-270-4347.

[Career Counseling](#) - The Career Development Center (CDC) provides services for all stages of career development. The mission of the CDC is to provide the career planning tools to ensure a lifetime of career success.

[Park Helpdesk](#) - If you have forgotten your OPEN ID or Password, or need assistance with your PirateMail account, please email [helpdesk@park.edu](mailto:helpdesk@park.edu) or call 800-927-3024

[Resources for Current Students](#) - A great place to look for all kinds of information <http://www.park.edu/Current/>.

**Advising** - Park University would like to assist you in achieving your educational goals. Please contact your Campus Center for advising or enrollment adjustment information.

**Online Classroom Technical Support** - For technical assistance with the Online classroom, email [helpdesk@parkonline.org](mailto:helpdesk@parkonline.org) or call the helpdesk at 866-301-PARK (7275). To see the technical requirements for Online courses, please visit the <http://parkonline.org> website, and click on the "Technical Requirements" link, and click on "BROWSER Test" to see if your system is ready.

**FAQ's for Online Students** - You might find the answer to your questions here.

### **Course Description:**

This course provides an overview of computer networking concepts. Course topics include (but are not limited to): protocol layer stack, circuit switching vs. packet switching, connectionless vs. connection-oriented services, routing, Ethernet, LAN topologies, transmission media. Optionally, the course may provide hands-on projects. For example, students may be asked to install and configure a LAN, install and use Linux network applications, or write network programs. Prerequisite: **CS208** and **CS219**. 3:0:3

### **Learning Outcomes:**

#### **Core Learning Outcomes**

1. Examine and comprehend the following networking concepts -basic computer networking concepts including Circuit-switching and Packet-switching, Residential access networks (point-to-point, dialup modem, ADSL, cable modem), Protocol layer stack, Client-Server paradigm, and Packet-switched network delay calculation - application-layer applications including Telnet, FTP, DNS, HTTP, SMTP -Other state of arts topics including Wireless and Mobile Networks, and Security in Computer Network.
2. Examine and analyze the following transport-layer concepts: -Transport-Layer services -Reliable vs. un-reliable data transfer -TCP protocol -UDP protocol
3. Examine and synthesize the following network-layer concepts: -Network-Layer services -Routing -IP protocol -IP addressing
4. Examine and evaluate the following link-layer and local area network concepts: -Link-Layer services -Ethernet -Token Ring -Error detection and correction -ARP protocol

### **Core Assessment:**

All Park University courses must include a core assessment tool that measures the degree to which students learn the course's learning outcomes. School policy dictates that a student's performance on the core assessment tool must count for at least 20% of the student's total course grade. For this course, the tool consists of the final exam. Therefore, the final exam must count for at least 20% of the student's total course grade. School policy dictates that the core assessment tool must cover at least 75% of a course's learning outcomes. To ensure compliance, all CS 365 instructors are required to give the same final exam. See the attached final exam artifact and artifact solution. To prevent cheating, students are strictly forbidden from keeping the final exam, the solutions, or copies of either.

The ICS Program Coordinator will analyze core assessment results for a sampling of all ICS courses offered. In analyzing the results, the ICS Program Coordinator will grade the exams using the (very specific) grading criteria shown on the exam solution. The final grade is in the form of a percentage where the percentages equate to the following levels of success:

Exceeds expectations	Meets expectations	Does not meet expectations	No evidence
≥ 85%	65% to 84%	< 65%	No exam graded.

The ICS Program Coordinator will use the core assessment scores to compare results across all instructional modalities.

For this course, the assessment is based on a final exam. There will be 4 questions in each of the 8 categories, i.e. Synthesis, Analysis,... etc. Thus, there will be 32 questions total in the final exam. Furthermore, all 4 questions for each category should cover all 4 learning outcomes.

### **Academic Honesty:**

Academic integrity is the foundation of the academic community. Because each student has the primary responsibility for being academically honest, students are advised to read and understand all sections of this policy relating to standards of conduct and academic life. [Park University 2007-2008 Undergraduate Catalog Page 85-86](#)

### **Plagiarism:**

Plagiarism involves the use of quotations without quotation marks, the use of quotations without indication of the source, the use of another's idea without acknowledging the source, the submission of a paper, laboratory report, project, or class assignment (any portion of such) prepared by another person, or incorrect paraphrasing. [Park University 2007-2008 Undergraduate Catalog Page 85](#)

### **Attendance Policy:**

Instructors are required to maintain attendance records and to report absences via the online attendance reporting system.

1. The instructor may excuse absences for valid reasons, but missed work must be made up within the semester/term of enrollment.
2. Work missed through unexcused absences must also be made up within the semester/term of enrollment.
3. Work missed through unexcused absences must also be made up within the semester/term of enrollment, but unexcused absences may carry further penalties.
4. In the event of two consecutive weeks of unexcused absences in a semester/term of enrollment, the student will be administratively withdrawn, resulting in a grade of "F".
5. A "Contract for Incomplete" will not be issued to a student who has unexcused or excessive absences recorded for a course.
6. Students receiving Military Tuition Assistance or Veterans Administration educational benefits must not exceed three unexcused absences in the semester/term of enrollment. Excessive absences will be reported to the appropriate agency and may result in a monetary penalty to the student.
7. Report of a "F" grade (attendance or academic) resulting from excessive absence for those students who are receiving financial assistance from agencies not mentioned in item 5 above will be reported to the appropriate agency.

**Disability Guidelines:**

Park University is committed to meeting the needs of all students that meet the criteria for special assistance. These guidelines are designed to supply directions to students concerning the information necessary to accomplish this goal. It is Park University's policy to comply fully with federal and state law, including Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, regarding students with disabilities. In the case of any inconsistency between these guidelines and federal and/or state law, the provisions of the law will apply. Additional information concerning Park University's policies and procedures related to disability can be found on the Park University web page:

<http://www.park.edu/disability> .