

# CISC467/667: Cloud Computing (Syllabus) Spring 2021

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**Location:** Zoom link: <https://udel.zoom.us/j/95241994621> Password: 789394

**Time:** Tue/Thu 12:30PM - 1:45PM

**Final Exam:** TBA

**Description:** This course addresses a broad range of topics in cloud computing and distributed systems, including:

- Advanced system structure
- Cloud systems, distributed systems, their communication mechanisms, and distributed objects (peer-to-peer systems)
- MapReduce, key-value stores, Spark, NoSQL
- Synchronization, scheduling, election, distributed agreement
- Failures and recovery management
- System support for Internet-scale computing and distributed data

This course highlights key developments in computing system design over the last two decades and illustrates how insight has evolved to implementation.

**Prerequisites:** CISC361. A minimum grade of C- in both CISC220 and CISC260. CPEG222 may be substituted for CISC260.

**Texts:** Distributed Systems: Concepts and Design, (5th Edition) Coulouris, Dolimore, Kindberg, Blair

**Grading:** Participation (in class activities/discussions): 5%  
Homework assignments: 20%  
Midterm exam: 25%  
Final exam: 30%  
Projects: 20%

Overall: A(100-95), A-(94-90), B+(89-87), B(86-83) B-(82-80),  
C+(79-77), C(76-73), C-(72-70),  
D+(69-67), D(66-63), D-(62-60), F(bellow 60).

**Late Policy:** No late assignments will be accepted unless compelling reasons can be supplied and verified. Late assignments will receive no grade.

**Scholastic Dishonesty:** The University expects a student to maintain a high standard of individual honor in his/her scholastic work. Unless otherwise required, each student is expected to complete his or her assignment individually and independently. Although study together is encouraged, the work handed in for grading by each student is expected to be his or her own. Any form of academic dishonesty will be strictly forbidden and will be punished to the maximum extent.

**Special Accommodation:** If you feel that you may need an accommodation based on the impact of a disability, please contact me to discuss your specific needs. Additionally, you will need to contact the Office of Disability Support Services (ODSS) for coordination of your academic accommodations. The ODSS is located at 240 Academy Street, Alison Hall Suite 130, Phone: 302-831-4643.

**The instructor reserves the right to alter this syllabus as necessary.**