

Prerequisite / Corequisite: None

Audience:

This course is an introduction to cloud computing for master's level students in Information Management, Applied Data Science, and Library and Information Science.

Description:

Cloud computing concepts, terminology, benefits, and risks. Cloud economics, business, and technology implications; cloud decision-making, deployment and management processes. Privacy and security issues. Hands-on experience with major cloud platforms.

Additional Course Description:

The focus is on cloud computing from a user perspective, that is, organizations that utilize cloud computing for their information infrastructure, application development, data analytics, customer service, and other processes. Students who complete the course will be able to contribute to cloud decision-making, deployment, and management in any organization. The course will utilize readings, lectures, case studies, labs with widely used cloud platforms, and a final project.

Credits: 3

Learning Objectives:

After taking this course, students will be able to

1. Understand and apply cloud concepts and terminology
 - a. Understand the economics of cloud computing and the financial implications of cloud computing decisions
 - b. Identify fundamental technologies that support and enable cloud computing
2. Make management-level decisions about cloud adoption
 - a. Analyze the benefits and risks of cloud adoption in general and as they relate to a specific organizational context
 - b. Assess accurately how cloud management approaches, technology, and policy may affect organizations, users, and information systems
 - c. Decide whether to adopt the cloud, and what deployment and service models are most appropriate
 - d. Critically assess potential cloud services and cloud providers
3. Effectively implement the cloud deployment process
 - a. Map the critical steps and decisions involved in cloud deployment and migration
 - b. Identify and manage privacy and security risks associated with the cloud
 - c. Identify and analyze policy and sustainability issues around cloud computing and how they affect providers, users, and other stakeholders
4. Create and deploy cloud-based applications on major platforms

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Bibliography/Texts/Supplies—Required:

The course does not have an official textbook. Required readings are available in Course Reserves at the Syracuse University Library, or in supplemental files via the Learning Management System.

Course Requirements and Expectations:

This course involves synchronous and asynchronous online activities. Synchronous sessions include discussion of concepts and practices associated with each topic and review of case studies and labs. In some weeks, we have guest speakers; in others we have group breakout sessions to discuss current topics such as company strategies, government policies, emerging technologies, or new practices in cloud computing.

Asynchronous activities include reading and viewing articles, slide presentations and other content, and participation in discussion groups as listed in the LMS under Coursework for specific weeks.

Essays and labs are completed individually. Final projects are done in groups of three or four.

Assignments are due at 11:59 the night before our synchronous class sessions as listed in the course schedule below (unless otherwise specified by the instructor). Late assignments will be accepted up to 5 days after the due date, with 20% deducted (e.g., 2 points deducted from a 10-point assignment). Assignments will be posted as “Files” in the LMS.

Participation is based on your attendance (one-half point for each session totaling 5 points—you can miss one session with no penalty) and your participation in the five asynchronous discussion forums (one point each totaling 5 points).

Expectations for the course include quality of thinking; quality of communication in presentations, discussion, and writing; timeliness and consistency of effort; contribution to the understanding of others; teamwork; and overall professionalism.

Grading:

Grades will be calculated as follows:

Essays (two)—10 points each

Labs (four)—10 points each

Final project: Report (20) and presentation (10)—30 points

Attendance—5 points

Discussion forums—5 points

Total—100 points

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Grades are calculated as follows:

A	95–100
A–	90–94
B+	86–89
B	83–85
B–	79–82
C+	75–78
C	70–74
C–	65–69
F	Below 65

Attendance:

Attendance is expected for weekly synchronous sessions. You can miss one class without penalty, but if you are unable to attend all or part of a session, you are expected to view the recording of the session, complete any assignments, and review the weekly review questions. Please let me know in advance if you will be absent.

Academic Integrity Policy

Syracuse University's Academic Integrity Policy reflects the high value that we, as a university community, place on honesty in academic work. The policy defines our expectations for academic honesty and holds students accountable for the integrity of all work they submit. Students should understand that it is their responsibility to learn about course-specific expectations, as well as about university-wide academic integrity expectations. The policy governs appropriate citation and use of sources, the integrity of work submitted in exams and assignments, and the veracity of signatures on attendance sheets and other verification of participation in class activities. The policy also prohibits students from submitting the same work in more than one class without receiving written authorization in advance from both instructors. Under the policy, students found in violation are subject to grade sanctions determined by the course instructor and non-grade sanctions determined by the School or College where the course is offered as described in the Violation and Sanction Classification Rubric. SU students are required to read an online summary of the University's academic integrity expectations and provide an electronic signature agreeing to abide by them twice a year during preterm check-in on MySlice. For more information about the policy, see <http://class.syr.edu/academic-integrity/policy/>.

Course Specific Policy on the Use of Turnitin

This class will use the plagiarism-detection and -prevention system Turnitin for your case studies and final project. When you submit an assignment to the LMS for grading, it will be automatically submitted to Turnitin, which compares submitted documents against documents on the Internet and against student papers submitted to Turnitin at SU and at other colleges and

universities. **You will have the option to submit your papers in advance to Turnitin via Blackboard (instructions will be provided) to identify any plagiarism or citation problems and fix them.** I will take your knowledge of the subject matter of this course and your writing level and style into account in interpreting the originality report. Keep in mind that all papers you submit for this class will become part of the Turnitin.com reference database solely for the purpose of detecting plagiarism of such papers.

IMPORTANT: For a group assignment, each member of a group whose name appears on any work that is turned in will be held *fully and equally responsible* for any violation of academic integrity. It is your responsibility to ensure that the entire paper meets the standards for academic integrity, not just the sections that you write yourself.

Disability-Related Accommodations

Syracuse University values diversity and inclusion; we are committed to a climate of mutual respect and full participation. If you believe that you need academic adjustments (accommodations) for a disability, please contact the Office of Disability Services (ODS), located in Room 309 of 804 University Avenue, visit the ODS website (<http://disabilityservices.syr.edu>), or call (315) 443-4498 or TDD: (315) 443-1371 for an appointment to discuss your needs and the process for requesting academic adjustments. ODS is responsible for coordinating disability-related academic adjustments and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Because academic adjustments may require early planning and generally are not provided retroactively, please contact ODS as soon as possible. Our goal at the iSchool is to create learning environments that are useable, equitable, inclusive, and welcoming. If there are aspects of the instruction or design of this course that result in barriers to your inclusion or accurate assessment or achievement, please meet with me to discuss additional strategies beyond official accommodations that may be helpful to your success.

Religious Observances Notification and Policy

SU's religious observances policy, found at supolicies.syr.edu/emp_ben/religious_observance.htm, recognizes the diversity of faiths represented in the campus community and protects the rights of students, faculty, and staff to observe religious holy days according to their tradition. Under the policy, students should have an opportunity to make up any examination, study, or work requirements that may be missed due to a religious observance provided they notify their instructors no later than the end of the second week of classes through an online notification form in MySlice listed under Student Services/Enrollment/My Religious Observances/Add a Notification. If you miss a synchronous session due to religious observances, you can make it up as noted above for other missed sessions.

Student Academic Work Policy

This course may use course participation and documents created by students for educational purposes. In compliance with the Federal Family Educational Rights and Privacy Act, works in all media produced by students as part of their course participation at Syracuse University may be used for educational purposes, provided that the course syllabus makes clear that such use

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may occur. It is understood that registration for and continued enrollment in a course where such use of student works is announced constitutes permission by the student. After such a course has been completed, any further use of student works will meet one of the following conditions: (1) the work will be rendered anonymous through the removal of all personal identification of the work's creator/originator(s); or (2) the creator/originator(s)' written permission will be secured. As generally accepted practice, honors theses, graduate theses, graduate research projects, dissertations, or other exit projects submitted in partial fulfillment of degree requirements are placed in the library, University Archives, or academic departments for public reference.

Course Evaluations

There is an end-of-course evaluation for you to complete this term. This evaluation is conducted online and is entirely anonymous. You will receive a notification from the Syracuse University Office of Institutional Research & Assessment (OIRA) in your email account with the evaluation website link and your passcode. Please take the time and fill out this evaluation as your feedback and support of this assessment effort is very much appreciated. The school carefully reviews ratings and comments that you submit, and these factor into decisions about course, program, and instructor development.

Course Schedule (see separate attachment under Toolbox)