IT3037C Cloud Computing
Online

Instructor

Name
Email
Office Location   Virtual
Office Hours   By appointment, email to schedule

Contents

Course Description

The course will cover general cloud computing concepts as well as general cloud computing models and services such as Public, Private and Hybrid cloud, and infrastructure as a service (IaaS), platform as a service (PaaS), and software as a service (SaaS).
It will also cover some core Azure services and solutions, and key Azure pillar services concerning security, privacy, compliance, and trust. Finally, it will cover pricing and support services available with Azure.

Pre-Reqs

IT 2035C Network Infrastructure Management
IT 1081C System Administration

Credit Hours and Course Format
3 credit hours; Online

Course Learning Outcomes
Upon completion of this course, the student will be able to:
- Describe cloud services and their benefits.
- Recognize key terms they will encounter when working with cloud services.
- Understand public, private, and hybrid cloud models.
- Describe infrastructure as a service (IaaS), platform as a service (PaaS), and software as a service (SaaS).
- Identify core Azure architectural components, services, and products.
- Describe Azure solutions.
- Describe Azure management tools.
- Explain how to secure network connectivity in Microsoft Azure.
- Describe core Azure identity services.
- Describe security tools and features.
- Describe Azure governance methodologies.
- Describe monitoring and reporting in Azure.
- Describe privacy, compliance, and data protection standards in Azure.
- Describe Microsoft Azure subscriptions and management groups.
- Recognize ways to plan and manage Azure costs.
- Identify Azure support options.
- Understand and describe features of Azure service-level agreements (SLAs).
- Explain the service lifecycle in Azure.

Course Materials
All course materials are available on Canvas, and no textbook is required for this class.

Recommended Resources
Azure Documentation: https://docs.microsoft.com/en-us/azure/?product=featured

Course Policies and Grading
Attendance/Participation Expectations
Participation in this course may include group activities, discussion board posts and projects. You and your team will decide on a team contract to help you manage the work, and your participation in the team will be graded.

Communication Policy

Email is the best way to communicate both for questions and to arrange office hour appointments. You can expect a response within 24 hours during the week and 48 hours on the weekend. You can also use the course Q&A discussion board to post your questions as well.

Feedback

Feedback will be provided in Canvas for your presentations and labs. Typically, your grade for presentations and labs will be updated within two weeks of submission.

Assignments and Submission Expectations

The assignments in this course include hands-on labs, quizzes, discussion board posts, exams, and a group final project.

Late or Missing Assignment Policy

I do not accept late assignments. Check Canvas frequently to ensure you do not miss a due date. Assignments are open a week before the assignment is due providing plenty of time for you to complete the work.

Grading Scale

93.00% and above = A
90.00%-92.99% = A-
87.00%-89.99% = B+
83.00%-86.99% = B
80.00%-82.99% = B-
77.00%-79.99% = C+
73.00%-76.99% = C
70.00%-72.99% = C-
67.00%-69.99% = D+
63.00%-66.99% = D
60.00%-62.99% = D-
less than 60.00% = F

The course grades are weighted as follows:

Labs	40%
Quizzes	30%
Exams	20%
Participation	10%

Course Schedule

This course is made up of a collection of modules. The modules open up at 12 AM on Monday and close at 11:59 PM on Sunday. The modules will be released one week at a time, unless stated otherwise. Each module may consist of a combination of the following activities:

Learning Content

The learning content for the course will consist of slides, videos and Azure documentation. This is an important element to be successful in this class. Weekly assignments such as labs and quizzes are dependent on understanding the learning content.

Assignments

Assignments like labs will help you get hands on practice with Azure. Make sure you go through the content before attempting the lab, or you will be lost. Between learning content and Azure documentation, you should be able to get through the labs easily.

Quizzes

Some of the modules will consist of quizzes that will act as a knowledge check. The learning content for the module should prepare you for the quiz. Due dates for the quiz will be clearly stated next to each quiz in Canvas.

Discussion Board

Your participation grade for the class will be dependent on occasional discussion board activities. You will be asked to post about a specific topic or scenario and might be asked to review or comment on your classmates posts as well.

Exams

There will be 2 exams in this course – a mid-term and a final.

UC Policies

Attendance: Students at the University of Cincinnati are expected to attend classes in order to meet the learning objectives for the course. Students are expected to follow the class attendance policy as outlined by the instructor. Students participating in official University sponsored activities, where the student is representing the University, will meet with instructor related to absences due to university-sponsored activities. When such absences occur, students need to provide documentation of the event(s), and work with the professor to develop a written plan for completion of missed assignments or other course requirements with as much advance notice as possible.

Communication: All university business must be conducted *using a university assigned email account*. The use of a personal, or non-university assigned email account to conduct university business is strictly prohibited. [See full policy here](#).

Class Cancellation Policy: In the rare case that a class must be cancelled, faculty will post an announcement on the LMS that will be emailed to students. Faculty will attempt to communicate class cancelations with as much advance notice as possible. Students should be sure that their LMS email is current and valid to ensure emails are received. If the University closes due to inclement weather or other emergency situations, there will be an announcement posted on Canvas (LMS) and if possible on the local news channels (TV and radio). Communications related to University closures will also be sent to the student's cell phone number on record through the automatic University emergency text messaging system. Students should notify the University if they change their cell phone number to ensure they will receive these important emergency communications.

Academic Integrity: The University of Cincinnati is committed to academic integrity. A formal articulation of this commitment is articulated in the Student Code of Conduct. Any violation of these rules, including plagiarism or cheating will be handled on a case-by-case basis. At the least, you should anticipate a zero on an assignment, at the fullest extent, your violation will be reported to the university and the incident will be documented on your permanent record.

Accessibility and Special Needs: The University of Cincinnati is committed to providing all students with equal access to learning opportunities. [Accessibility Resources](#) is the official campus office that works to arrange for reasonable accommodations for students with an identified physical, psychological or cognitive disability (learning, ADD/ADHD, psychological, visual, hearing, physical, cognitive, medical condition, etc.) Students are encouraged to contact the Accessibility Resources Office to arrange for a confidential meeting to discuss services and accommodations. Contact should be initiated as soon as possible to allow adequate time for accommodations to be arranged.

Counseling Services: All UC students have access to counseling and mental health care through University Health Services (UHS), which can provide both psychotherapy and psychiatric services. In addition, Counseling and Psychological Services (CAPS) can provide professional counseling upon request; students may receive five free counseling sessions through CAPS without insurance. Students are encouraged to seek assistance for anxiety, depression, trauma/assault, adjustment to college life, interpersonal/relational difficulty, sexuality, family conflict, grief and loss, disordered eating and body image, alcohol and substance abuse, anger management, identity development, and any other issues or concerns. After hours, students may call UHS at 513-556-2564 or CAPS Cares at 513-556-0648. For urgent physician consultation after-hours, students may call 513-584-7777.

Title IX: Title IX is a federal civil rights law that prohibits discrimination on the basis of a person's actual or perceived sex, gender, gender identity, gender expression, or sexual orientation. Title IX also address instances of sexual violence, dating or domestic violence, and stalking. If a student discloses a Title IX issue to a faculty member, the faculty member is required to forward that information to the Title IX Office. The Title IX office will follow up with the student and discuss how the University can take steps to address the impact on the student and the community. They will also inform the student of their rights and direct them to available resources. The priority is to make sure students are safe and successful here at the University of Cincinnati. Students are not required to talk to anyone in the Title IX Office. Students may also directly report any instance of sex or gender-based discrimination, harassment or violence to the Title IX office at 513-556-3349. Students who wish to know more about their rights and resources on campus, they can consult the [Title IX website](#) or contact the Title IX office directly at 513-556-3349.

Religious Accommodation: Ohio law and the University's Student Religious Accommodations for Courses Policy 1.3.7 permits a student, upon request, to be absent for reasons of faith or religious or spiritual belief system or participate in organized activities conducted under the auspices of a religious denomination, church, or other religious or spiritual organization and/or to receive alternative accommodations with regard to examinations and other course requirements due to an absence permitted for the above-described reasons. Not later than fourteen days after the first day of instruction in the course, a student should provide the instructor with written notice of the specific dates for which the student requests alternative accommodations. For additional information about this policy, please contact the Executive Director of the Office of Equal Opportunity and Access at (513) 556-5503 or oeohelp@UCMAIL.UC.EDU

NOTE: The instructor reserves the right to update this syllabus as class needs arise. Be assured that they will communicate to you any changes to the schedule, syllabus or policies quickly and efficiently.