

CTS 4379 Advanced Cloud Infrastructure and Services

Course Justification

Cloud Computing has become the norm rather than the exception in terms of how major corporations host their IT infrastructure. It is estimated that well over 90% of companies use cloud computing services, and almost all have plans for continued expansion. The global Cloud Computing market size is now over \$500 billion annually, with estimates putting it over \$1 Trillion annually within five years. Most IT professionals will need to learn cloud technologies to continue working in the industry. Thus, new graduates, particularly those in the IT program, should acquire these Cloud Computing skills while in FIU to make them more marketable once they graduate. In addition, certifications are important within the industry to prove to employers that you have the requisite knowledge of the platforms they utilize. Creating a course focused on the hands-on deployment of complex cloud technologies and the acquisition of a SysOps administration certification from a Cloud Computing industry leader would be a tremendous benefit to our students.

The intent of this course is to help the student acquire skills to maintain cloud computing workloads, perform operations through the console and command-line interface, implement cloud security controls and compliance requirements, monitor and troubleshoot cloud computing systems, apply network concepts, implement architectural requirements, implement recovery procedures and provide solutions for various incidents. The course will help the student prepare to take a SysOps Administrator certification exam with a major cloud provider.