

## **CTS 4375 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 required knowledge of the platforms they utilize. Creating a course focused on a deeper understanding of cloud technologies and the acquisition of secondary-level certification from a Cloud Computing industry leader would be a tremendous benefit to our students.

The intent of this course is to help students develop a deep technical expertise in cloud computing and prepare them for a Solutions Architect certification exam with a major cloud provider. Students will learn the business security and compliance considerations in Cloud Computing, migrating to the cloud, architecting cloud applications, and troubleshooting cloud services. Students will be exposed to industry-leading cloud administration portals and learn how to use them effectively to create standard infrastructure patterns per best practices.