

CTS 3145 Cloud Essentials

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 acquiring fundamental certifications across one or more of the Cloud Computing industry leaders would tremendously benefit our students.

The intent of this course is to prepare the student to demonstrate knowledge of Cloud computing from a business and technical perspective, including Cloud concepts, services, architecture, system integration, connectivity, administration, security, and technical support. In addition, the course will be structured to prepare the students for industry certification foundational examinations. 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.