**COLLIN COLLEGE**

**COURSE SYLLABUS**

Course Information

**Course Number**: ITNW 1370

**Course Title:** Cloud+ Computing Essentials

**Course Description:** A study of the main cloud computing principles, concepts, and architecture from a technical and an enterprise perspective in terms of moving to and governing the three types of cloud environments (private, public and hybrid). Lab required.

**Course Credit Hours:** 3

Lecture Hours: 2

Lab Hours: 3

**Prerequisite:** ITCC 1371 or ITNW 1358

**Student Learning Outcomes:** Upon successful completion of this course, students will:

1. Demonstrate understanding of common terms and definitions of cloud computing by providing examples.
2. Characterize Cloud Services in terms of the relationship between cloud computing and virtualization.
3. Distinguish between the different types of clouds, including SaaS, IaaS, and PaaS by giving examples of each.
4. Recognize the similarities and differences between cloud computing and outsourced cloud services in terms of: Scalability, Security, Hardware Independence, Variable Costs, Time to Market and Distribution over the Internet.
5. Explain technical challenges and risk for cloud computing and methods to mitigate them for: Cloud Storage, Application Performance, Data Integration, and Security.
6. Explain and identify the issues associated with integrating cloud computing into an organization’s existing compliance risk and regulatory framework: Security, Legal, Compliance, and Privacy Risks.

**Withdrawal Policy:** See the current *Collin Registration Guide* for last day to withdraw.

**Collin College Academic Policies:** See the current *Collin Student Handbook.*

**Americans with Disabilities Act Statement:** Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to contact the ACCESS office, SCC- D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.

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