

ITCT 119-CLOUD+ 3 CREDITS

SYLLABUS

CATALOG DESCRIPTION

An overview in the knowledge and skills required to implement, maintain, and deliver cloud technologies and infrastructures (e.g. server, network, storage, and virtualization technologies), and to understand aspects of IT security and use of industry best practices related to cloud implementations and the application of virtualization. Various models of cloud services and deployments will be discussed. May be preparation for an industry certification exam.

Prerequisites: MATH-096, ENGL-095 and (RDNG-099 or RDNG 113) or appropriate Math, English, and Reading Accuplacer scores.

Semester Offered: Spring

Common Student Learning Outcomes

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

Course Learning Outcomes

Upon successful completion of the course, the student will be able to...

1. Explain the core concepts of the cloud computing

2. Evaluate the characteristics, advantages and challenges brought about by various models and services in cloud computing.
3. Apply the fundamental concepts in datacenters to understand the tradeoffs in power, efficiency and cost.
4. Discuss system virtualization and outline its role in enabling the cloud computing system model.
5. Illustrate the fundamental concepts of cloud storage and demonstrate their use in storage systems.
6. Analyze various cloud programming models and apply them to solve problems on the cloud.