**COLLIN COLLEGE**

**COURSE SYLLABUS**

Course Information

**Course Number**: ITMT 2304

**Course Title:** Implementing an Advanced Server Infrastructure

**Course Description:** This course covers managing and maintaining a server infrastructure, planning and implementing a highly available enterprise infrastructure, planning and implementing a server virtualization infrastructure, and designing and implementing identity and access solutions. Additionally, this course is a preparation for the MS 70-414 professional exam. Lab required.

**Course Credit Hours:** 3

 Lecture Hours: 2

 Lab Hours: 3

**Prerequisite:**  ITMT 1372 or ITMT 2370

**Student Learning Outcomes:**

* **State-mandated Outcomes:** Upon successful completion of this course, students will:
1. Manage and maintain a server infrastructure.
2. Plan and implement a highly available enterprise infrastructure.
3. Plan and implement a server virtualization infrastructure.
4. Design and implement ~~i~~dentity and access solutions.
* **Additional Collin Outcomes:** Upon successful completion of this course, students will:
1. Describe an enterprise data center.
2. Plan and implement a server virtualization strategy using System Center 2016, plan and implement the network and storage infrastructure required to deploy a virtualized server infrastructure and plan and deploy virtual machines on Windows Hyper-V.
3. Plan and implement a virtualization administration solution by using System Center 2016.
4. Plan and implement a server monitoring strategy using the Windows Server 2016 tools and using Microsoft System Center 2016 - Operations.
5. Plan and implement an application and a file services infrastructure that is highly available.
6. Plan and implement a highly available server infrastructure by using the failover clustering features in Windows Server 2016.
7. Plan and implement a business continuity strategy in a Windows Server 2016 environment.
8. Plan and implement a PKI deployment, and plan and implement a certificate management solution.
9. Plan and implement an AD FS server deployment and claims aware application access.
10. Plan and implement Dynamic Access Control, Workplace Join and Work Folders.
11. Plan and implement an AD RMS deployment, plan and manage AD RMS templates and access, and plan and implement external access to AD RMS services.

**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.

*Fall 2017 New*