**COLLIN COLLEGE**

**COURSE SYLLABUS**

Course Information

**Course Number**: ITMT 2305

**Course Title:** Designing and Implementing a Server Infrastructure

**Course Description:** This course covers planning and deploying a server infrastructure; designing and implementing network infrastructure services; designing and implementing network access services and Active Directory infrastructure. Additionally, this course is preparation for the MS 70-413 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. Deploy a server infrastructure.
2. Design and implement network infrastructure services.
3. Install and configure network access services.
4. Design and implement an Active Directory Infrastructure.

* **Additional Collin Outcomes:** Upon successful completion of this course, students will:

1. Plan server upgrade and migration, plan and implement a server deployment strategy and plan and deploy servers by using System Center 2016 R2 Virtual Machine Manager (VMM).
2. Design and maintain an IP configuration and address management solution.
3. Design and implement name resolution, an AD DS forest and domain infrastructure, an AD DS organizational unit (OU) infrastructure.
4. Design and implement a Group Policy Object (GPO) strategy.
5. Design and implement an AD DS physical topology.
6. Plan and implement storage and file services.
7. Design and implement network protection.
8. Design and implement remote access 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*