Miami Dade College

Course Description

CIS3510 | Information Technology Project Management | 4.00 credits

This upper division course, for students majoring in Information Systems Technology, covers the general aspects of project management and emphasizes the important special considerations which apply to information technology projects. Students will learn the principles, processes and practices of information technology project management, including techniques for planning, organizing, scheduling, and controlling software projects with a substantial focus on cost estimation and risk management.

Course Competencies:

Competency 1: The student will relate the strategic plan and an IT project by:

1. Analyzing the project request
2. Deducing project scope
3. Preparing a business case for the IT project
4. Assessing internal and external factors that affect IT projects
5. Considering all project stakeholders

Competency 2: The student will evaluate project feasibility by:

1. Appraising a feasibility study of the IT project to determine operational, technical, economic, and schedule feasibility
2. Performing Risk Analysis and developing a risk management plan
3. Estimating the Total Cost of Ownership (TCO)

Competency 3: The student will use project management software to prepare documents by:

1. Generating a work breakdown structure (WBS) that allocates project resources
2. Creating a Gantt chart that schedules project tasks
3. Generating a Program Evaluation and Review Technique (PERT) / Critical Path Management (CPM) chart that identifies the critical path

Competency 4: The student will consider different project development methods by:

1. Evaluating various project development methods like SDLC, Agile, and Dual Vee
2. Differentiating deliverables for different methods and each phase of their respective development cycle
3. Selecting and using the appropriate project documentation tools
4. Selecting and using the appropriate modeling tools

Competency 5: The student will prepare a project plan by:

1. Developing a communications plan
2. Developing a change management plan
3. Developing a user training plan
4. Developing a schedule for updating project status to stakeholders
5. Planning, producing, and delivering professional quality graphical presentations for the appropriate audience at the technical level

Learning Outcomes:

- Solve problems using critical and creative thinking and scientific reasoning

Updated: Fall 2025