



Course Number and Title: LOM 230 Project Management

Campus Location:

Georgetown, Wilmington

Effective Date:

2020-51

Prerequisite:

ENG 102, MAT 145 or MAT 153, OAT 152 or DAT 101

Co-Requisites:

None

Course Credits and Hours:

3.00 credits

2.00 lecture hours/week

2.00 lab hours/week

Course Description:

This course introduces the subject and practical applications of project management, which is the application of knowledge, skills, tools, and techniques to project activities to meet project requirements. Students learn the skills necessary to initiate, plan, execute, control, and close small, medium, and large projects. The course combines theory, techniques, and applications of the subject material using a project management software application program.

Required Text(s):

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

Additional Materials:

None

Schedule Type:

Classroom Course

Disclaimer:

None

Core Course Performance Objectives (CCPOs):

1. Explain the subject of and application opportunities for project management. (CCC 2, 4, 5, 6; PGC 2, 3, 6)
2. Determine and communicate the scope and type of project application necessary to properly initiate and plan projects. (CCC 1, 2, 3, 5, 6; PGC 1, 3, 6)
3. Review projects as they develop using management control theories and applications. (CCC 2, 3, 5, 6; PGC 1, 2, 3, 6)
4. Discuss the typical requirements to control and close projects. (CCC 1, 2, 5, 6; PGC 1, 3, 6)
5. Use a project management software applications program to plan, develop, and revise a simulated construction project. (CCC 1, 2, 5, 6; PGC 1, 3, 6)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

Measurable Performance Objectives (MPOs):

Upon completion of this course, the student will:

1. Explain the subject of and application opportunities for project management.
 1. Explain the growing need for better project, program, and portfolio management.
 2. Describe the difference between projects and processes, provide examples of projects, list the attributes of projects, and explain the multiple constraints in project management.
 3. Define the key elements of the project management framework, including stakeholders, knowledge areas, common tools and techniques, and project success factors.
 4. Discuss the relationship among project, program, and portfolio management, and explain their contribution to enterprise success.
2. Determine and communicate the scope and type of project application necessary to properly initiate and plan projects.
 1. Describe the importance of aligning projects with business strategy and the strategic planning process through strengths, weaknesses, opportunities, and threats (SWOT) analysis.
 2. Explain the four stage planning process for project selection, and provide examples of applying the model to ensure strategic alignment of projects.
 3. Summarize the various methods for selecting projects, and calculate simple payback, net present value, and internal rate of return for capital investments.
 4. Describe the five project management process groups.
 5. Develop a preliminary project scope statement and statement of work (SOW).
 6. Explain project scope management tasks, and create a scope management plan and scope statement.
 7. Create a work breakdown structure (WBS) using project management software.
 8. Describe project time management planning, and prepare a project schedule based on activity and milestone lists, activity sequencing, and task precedence relationships.
 9. Discuss project resource and cost management, and demonstrate how to level resource conflicts in project management software.
 10. Describe change management, and describe the tools used to control and manage project changes within the project scope.
 11. Explain project human resource management, and describe project organizational charts and responsibility assignment matrices.
3. Review projects as they develop using management control theories and applications.
 1. Discuss tasks and outputs of project execution, and explain what is involved in directing and managing project execution as part of integrative project management.
 2. Discuss project risk management, and describe methods used before and during the project execution to minimize project risk.
 3. Describe the management tools used to communicate to project team members and stakeholders during the execution of the project.
 4. Explain the importance of recommending corrective actions and updating project plans as part of quality assurance and change management.
4. Discuss the typical requirements to control and close projects.
 1. List the task and outputs of project monitoring and control.
 2. Explain the role of change management in the control phase of the project.
 3. Explain the importance of scope verification and control and the acceptance of deliverables by both the project team and the external clients.
 4. Describe the use of schedule control processes, such as tracking Gantt charts.
 5. Discuss the tools and techniques used for cost control.
 6. Explain the monitoring and controlling work done as part of project human resource management to help manage project teams and stakeholders.
 7. Summarize the methods for performance reporting and managing stakeholders as part of project communications management.
 8. Describe risk monitoring and controlling processes.
 9. List the tasks and outputs of project termination.
 10. Discuss the process of project termination starting with client acceptance and ending with the final project report.
 11. Describe legal issues with contract closure, early project termination, client non- acceptance, negotiation, arbitration, and litigation.
5. Use a project management software application program to plan, develop, and revise a simulated construction project.
 1. Discuss the basic advantages of using collaborative project management software.
 2. Plan a simulated construction project using tasks, subtasks, and work packages in a properly constructed work breakdown structure.
 3. Create a Gantt chart showing a project timeline with the correct precedence relationships for all work packages.
 4. Create a network diagram showing the project critical path and slack activities.
 5. Develop a resource list, and create a labor budget report.
 6. Perform leveling on resource conflicts within the deadlines imposed by the project scope.
 7. Use optimization techniques on the planned project to meet revised project deadlines.
 8. Create and submit electronic project files and specific required printouts.

Evaluation Criteria/Policies:

Students must demonstrate proficiency on all CCPOs at a minimal 75 percent level to successfully complete the course. The grade will be determined using the Delaware Tech grading system:

92	-	100	=	A
83	-	91	=	B
75	-	82	=	C
0	-	74	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

Final Course Grade:

Calculated using the following weighted average

Evaluation Measure	Percentage of final grade
Summative: 4 Exams (equally weighted)	65%
Summative: Software Application Project	10%
Formative: Assignments/Participation (equally weighted)	25%
TOTAL	100%

Core Curriculum Competencies (CCCs are the competencies every graduate will develop):

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):**LOMAASLOM**

1. Analyze operational processes in order to provide assistance in the development of quality, customer service and cost improvement alternatives.
2. Utilize various statistical quality control techniques to aid in the development and utilization of global quality production and service applications.
3. Apply integrated technology-driven information necessary for internal operations.
4. Perform cost analysis on proposed operational projects and make recommendations to management.
5. Develop layouts of operational facilities in conjunction with new or improved processes.
6. Apply management functions, statistical quality and process applications, scheduling techniques and work measurement applications necessary for successful business decision making.
7. Apply managerial accounting, economics, human resources, and marketing principals when making workplace decisions.

Disabilities Support Statement:

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.