Lambton College

CSD-3423 Introduction to Project Management

Computer Studies

Course Number:	**Co-Requisites:**	**Pre-Requisites:**
CSD-3423	N/A	N/A
Prepared by:	Aaron Sarson, Coordinator	
Approved by:	Chris Slade, Senior Dean	
Approval Date:	Thursday, May 19, 2022	
Approved for Academic Year:	2022-2023	
Credit Weight:	3.00	

Course Description

This course provides a fundamental knowledge to manage people, workflows, and costs in project management. Students (1) analyze the project management landscape; (2) apply the project management knowledge areas, process groups, and traditional methods to IT projects; (3) apply agile methods to IT projects; and (4) use project management software to conduct project analysis, develop reports, and manage changes to IT projects. The group assignment and term project provides students an opportunity to incorporate and apply project management skills to solve real-world problems.

Course Learning Outcomes/Course Objectives

1. **Analyze the project management landscape**

    1.1   Identify the key historic factors that have led to the rise of project management

    1.2   Compare and differentiate between project, program and portfolio management

    1.3   Discuss the role of project manager and project management institute (PMI)

2. **Apply the project management knowledge areas, process groups, and traditional methods to IT projects**

    2.1   Classify the five project management process groups

    2.2   Map the process groups to the knowledge areas

    2.3   Identify the unique attributes of IT projects (versus non-IT projects)

    2.4   Develop and Demonstrate a waterfall project management methodology for IT projects

3. **Apply agile methods to IT projects**

    3.1   Describe and articulate key concepts and principles of agile

    3.2   Analyze agile teams, their leadership and communication models

3.3 Incorporate risk management to agile methodology

3.4 Illustrate the application of agile methods to IT projects through examples/case study

4. **Use project management software to conduct project analysis, develop reports, and manage changes to IT projects**

 4.1 Use software to create project schedule, manage and optimize project resources, update and control a project as well as communicate project aspects to stakeholders

 4.2 Plan, execute, control and close an IT project

Relationship to Essential Employability Skills

This course contributes to your program by helping you achieve the following Essential Employability Skills:

EES 1.1 Communicate clearly, concisely and correctly in the written, spoken and visual form that fulfills the purpose and meets the needs of the audience. (T, A,)

EES 1.2 Respond to written, spoken or visual messages in a manner that ensures effective communication. (T, A,)

EES 2.3 Execute mathematical operations accurately. (T, A,)

EES 3.4 Apply a systematic approach to solve problems. (T, A,)

EES 3.5 Use a variety of thinking skills to anticipate and solve problems. (T, A,)

EES 4.6 Locate, select, organize and document information using appropriate technology and information systems. (T, A,)

EES 4.7 Analyze, evaluate and apply relevant information from a variety of sources. (T, A,)

EES 5.8 Show respect for diverse opinions, values, belief systems and contributions of others. (T, A,)

EES 5.9 Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals. (T, A,)

EES 6.10 Manage the use of time and other resources to complete projects. (T, A,)

EES 6.11 Take responsibility for one's own actions, decisions and consequences. (T, A,)

Relationship to Vocational Learning Outcomes

This course provides the opportunity for you to achieve the following Program Vocational Learning Outcomes (VLO's), which will be taught and evaluated at a taught (T), assessed (A) or culminating performance (CP) level:

CPCM - Computer Programmer

VLO 2 Contribute to the diagnostics, troubleshooting, documenting and monitoring of technical problems using appropriate methodologies and tools. (T, A)

VLO 5 Communicate and collaborate with team members and stakeholders to ensure effective working relationships. (T, A)

VLO 7 Apply project management principles and tools when working on projects within a computing environment. (T, A)

VLO 8 Adhere to ethical, legal, and regulatory requirements and/or principles in the development and management of computing solutions and systems. (T, A)

CPCT - Computer Programmer

VLO 2 Contribute to the diagnostics, troubleshooting, documenting and monitoring of technical problems using appropriate methodologies and tools. (T, A)

VLO 5 Communicate and collaborate with team members and stakeholders to ensure effective working relationships (T, A)

VLO 7 Apply project management principles and tools when working on projects within a computing environment. (T, A)

VLO 8 Adhere to ethical, legal, and regulatory requirements and/or principles in the development and management of computing solutions and systems. (T, A)

CPRO - Computer Programmer

VLO 2 Contribute to the diagnostics, troubleshooting, documenting and monitoring of technical problems using appropriate methodologies and tools. (T, A)

VLO 5 Communicate and collaborate with team members and stakeholders to ensure effective working relationships. (T, A)

VLO 7 Apply project management principles and tools when working on projects within a computing environment. (T, A)

VLO 8 Adhere to ethical, legal, and regulatory requirements and/or principles in the development and management of computing solutions and systems. (T, A)

CSAC - Computer Software and Database Development

VLO 5 Integrate software applications for teams to collaborate and control the outcomes of a project. (T, A)

CSAM - Computer Software and Database Development

VLO 5 Integrate software applications for teams to collaborate and control the outcomes of a project. (T, A)

CSAT - Computer Software and Database Development

VLO 5 Integrate software applications for teams to collaborate and control the outcomes of a project. (T, A)

FSDM - Full Stack Software Development

VLO 5 Select, apply, and implement software applications adhering to industry standard architectural patterns (i.e. MVC, Microservice, Client-Server) commonly used to develop full stack software applications. (T, A)

FSDS - Full Stack Software Development

VLO 5 Select, apply, and implement software applications adhering to industry standard architectural patterns (i.e. MVC, Microservice, Client-Server) commonly used to develop full stack software applications. (T, A)

FSDT - Full Stack Software Development

VLO 5 Select, apply, and implement software applications adhering to industry standard architectural patterns (i.e. MVC, Microservice, Client-Server) commonly used to develop full stack software applications. (T, A)

Learning Resources

Required

Schwalbe, Kathy, (2016).Information Technology Project Management, 9th edition.Cengage Learning Inc.

Supplemental
Project Management Institute. (2017).A Guide to the Project Management Body of Knowledge (PMBOK Guide, 6th ed).Newton Square, Pennsylvania.Project Management Institute.

Project Management Institute. (tbd).Agile Practice Guide(all other details TBD)

Student Evaluation

Quizzes (8 equally weighted) - 50%
Tests (2 equally weighted) - 30%
Assignment - 10%
Term Project - 10%

Prior Learning Assessment and Recognition

Students who wish to apply for prior learning assessment and recognition (PLAR) need to demonstrate competency at a post-secondary level in all of the course learning requirements outlined above. Evidence of learning achievement for PLAR candidates includes:
• Other: Students interested in PLAR consideration are advised to discuss details with the program coordinator.

Course Related Information

Refer to Program Related Information

College Related Information

Note: It is the student's responsibility to retain course outlines for possible future use to support applications for transfer of credit to other educational institutions.
Academic Integrity

Lambton College is committed to high ethical standards in all academic activities within the College, including research, reporting and learning assessment (e.g. tests, lab reports, essays).
The cornerstone of academic integrity and professional reputation is principled conduct. All scholastic and academic activity must be free of all forms of academic dishonesty, including copying, plagiarism and cheating.

Lambton College will not tolerate any academic dishonesty, a position reflected in Lambton College policies. Students should be familiar with the Students Rights and Responsibilities Policy, located at lambtoncollege.ca. The policy states details concerning academic dishonesty and the penalties for dishonesty and unethical conduct.

Questions regarding this policy, or requests for additional clarification, should be directed to the Lambton College Student Success Department.

Students with Disabilities
If you are a student with a disability please identify your needs to the professor and/or the Accessibility Centre so that support services can be arranged for you. You can do this by making an appointment at the Accessibility

Centre or by arranging a personal interview with the professor to discuss your needs.

Student Rights and Responsibility Policy

Acceptable behaviour in class is established by the instructor and is expected of all students. Any form of misbehaviour, harassment or violence will not be tolerated. Action will be taken as outlined in Lambton College policy.

Date of Withdrawal without Academic Penalty

Please consult the Academic Regulations and Registrar's published dates.

Waiver of Responsibility

Every attempt has been made to ensure the accuracy of this information as of the date of publication. The content may be modified, without notice, as deemed appropriate by the College.

Students should note policies may differ depending on the location of course offering. Please refer to campus location specific policies:

LAMBTON COLLEGE POLICIES - applicable to all Lambton College students:
- Student Rights & Responsibilities & Discipline policy (2000-5-1)
- Test & Exam Writing Protocol (2000-1-6)
- Evaluation of Students (2000-1-3)
- Policy Link - https://www.lambtoncollege.ca/custom/Pages/Policies/Policies.aspx

CESTAR COLLEGE:
- https://www.lambtoncollege.ca/Programs/International/Lambton_in_Toronto/Student_Policies-17179868204/

QUEENS COLLEGE:
- https://www.lambtoncollege.ca/Programs/International/Lambton_in_Mississauga/Student_Policies-17179868190/