

CLCM3604

Advanced Governance for Cloud Applications
Fall 2023 - Current

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CLCM3604 Advanced Governance for Cloud Applications

COURSE DESCRIPTION

This course will enable learners to develop a Cloud DevOps (Development and Operations) environment for implementing and deploying a secure Cloud application that meets stakeholder requirements. Learners will explain stakeholder requirements based on a requirements document and will be able to explain specifications of the secure Cloud application based on a specifications document. They will understand and explain the data architecture described and the implementation plan for the secure Cloud application. Learners will explain the governance protocols and procedures and the security processes, protocols and procedures for implementing and deploying the secure Cloud application and they will be able to validate the resulting application with stakeholders.

REQUISITES	None
	Complete the following courses:
EQUIVALENTS	CLCM3602 - Advanced Governance for Cloud Applications (3)
CREDITS	3
HOURS	45
ELIGIBLE FOR	No
PLAR	110
ZERO TEXTBOOK	Yes
COST	

COURSE COMPETENCY

COMPETENCY TITLE

Cloud Application Implementation – Governance

COMPETENCY STATEMENT

Design and implement a set of policies, procedures and processes to support all requirements for the Software Development Lifecycle (SDLC) of the deployed application.

COMPETENCY DESCRIPTION

The governance of a cloud application is a set of protocols for tracking, maintaining, and securing the functionality of the application. It involves the delegation of responsibilities and procedures for avoiding unforeseen problems. Creating documentation that details the continuous implementation and continuous deployment of applications enables the access control, privacy, and data handling protocols that safeguard valuable information while maintaining useability of features.

This formal documentation process is the key to good governance of applications. Competency in

Bow Valley College

Course Outline

governance is about creating reliable channels of communication for the implementation of a complete and secure cloud application solution.

COURSE LEARNING OUTCOMES

Bow Valley College is committed to ensuring our graduates can demonstrate their abilities in key areas that will make them effective citizens and encourage their development as lifelong learners. In addition to the discipline-specific skills that learners acquire in their programs, the College has identified ten learning outcomes.

College-Wide Outcomes:

- 1. Communication
- 2. Thinking Skills
- 3. Numeracy and Financial Literacy
- 4. Working with Others
- 5. Digital Literacy
- 6. Positive Attitudes and Behaviours
- 7. Continuous Learning
- 8. Health and Wellness Awareness
- 9. Citizenship and Intercultural Competence
- 10. Environmental Sustainability

COURSE LEARNING OUTCOME(S)

COLLEGE WIDE OUTCOMES SUPPORTED

1	Document Cloud SDLC requirements by exercising judgement and demonstrating thoroughness.	1, 2, 5
2	Develop SDLC protocol for implementing the stakeholder's solution by demonstrating judgement and attention to details.	1, 2, 4, 5, 6
3	Develop Governance protocol for deploying and maintaining solutions by demonstrating judgement and attention to details.	1, 2, 5
4	Validate Governance policies and protocols by demonstrating verbal communication skills with tact and diplomacy.	1, 2, 4, 5, 6

LEARNING PATHWAY

*The time it takes learners to demonstrate competencies will vary. An example of a suggested schedule for learning and development is shown below. Learners will need to plan out their assessment attempts within their course. For additional information, please consult the Course Offering Information in





Brightspace.

WEEK/HOURS LEARNING AND DEVELOPMENT PLAN

Week 10 Validate Governance policies and protocols by demonstrating verbal communication skills with tact and diplomacy Validate Governance policies and protocols by demonstrating verbal communication skills with tact and diplomacy Validate Governance policies and protocols by demonstrating verbal communication skills with tact and diplomacy Validate Governance policies and protocols by demonstrating verbal communication skills with tact and diplomacy Validate Governance policies and protocols by demonstrating verbal communication skills with tact and diplomacy Validate Governance policies and protocols by demonstrating verbal communication skills with tact and diplomacy Validate Governance policies and protocols by demonstrating verbal communication	•	
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COURSE MODULES AND SCHEDULE

*Course schedule subject to change, depending on delivery mode and term of study. For exact dates, please consult the Course Offering Information in Brightspace.





WEEK/HOURS MODULES

1	Introduction to advanced cloud computing governance	
2	In-depth exploration of cloud governance frameworks (e.g., COBIT, CSA)	
3	Cloud risk management strategies	
4	Cloud compliance and regulatory requirements	
5	Cloud audit and compliance monitoring techniques	
6	Advanced cloud governance automation and tools	
7	Cloud governance for multi-cloud and hybrid environments	
8	Cloud governance for DevOps and agile environments	
9	Reading week	
10	Cloud governance for emerging technologies	
11	Advanced cloud security governance	
12	Cloud governance review and assessment	
13	Case studies in advanced cloud governance	
14	Final project and presentations	
15	Final project and presentations	

ASSESSMENT

This course follows an assessment-first approach, in which learners will be assessed, and receive structured feedback, and a personalized learning plan. Learners will also receive differentiated support from an instructor based on their individual needs.

Learners will have a variety of ways to demonstrate they have met the required competency through the demonstration of learning outcomes and criteria as laid out in the rubric. Learners will have multiple (but not unlimited) attempts to prove competency. It is suggested that learners plan out their assessment attempts within their course.

Learners will have flexibility in how they satisfy course learning outcomes while still adhering to the criteria found in the rubric and the Course Offering information. Please refer to the Course Offering Information and the rubric in Brightspace for additional information.





COURSE

LEARNING ASSESSMENT

OUTCOMES

3	Performance Demonstration	
4	Performance Demonstration	
1, 2, 3, 4	Competency Assessment	

ASSESSMENT

COURSE

LEARNING ASSESSMENT
OUTCOME(S)

1, 2, 3, 4 Journals (Minimum of 8) 80%
1, 2, 3, 4 Final exam 20%

Important: For details on each assignment and exam, please see the Course Offering Information.

PERFORMANCE STANDARDS

A minimum grade of D is required to pass this course. However, a program may require a higher grade in this course to progress in the program or to meet specific program completion requirements.

Please consult with the program area or contact the program chair for further details. A minimum Grade Point Average of 2.0 is required for graduation.

GRADING SCHEME

Grade	Percentage	Grade Point	Description
			Exceptional: superior
A+	95-100	4.0	knowledge of subject
			matter
			Excellent: outstanding
A	90-94	4.0	knowledge of subject
			matter
A-	85-89	3.67	
B+	80-84	3.33	



В		3.0	Very Good: knowledge of
	75-79		subject matter generally
			mastered
B-	70-74	2.67	
C+	67-69	2.33	
	64-66	2.0	Satisfactory/Acceptable:
С			knowledge of subject
			matter adequately
			mastered
C-	60-63	1.67	
D+	57-59	1.33	
D	50-56	1.0	Minimal Pass
E	Less than 50	0.0	Fail: an unsatisfactory
1.		0.0	performance

REQUIRED LEARNING RESOURCES

Learners will use a Cloud platform.

Mike Grob and Victoria Cheng (2021) Enterprise Risk Management for Cloud Computing

The Security Guidance for Critical Areas of Focus in Cloud Computing v4.0 ("Guidance v4.0") is licensed by the Cloud Security Alliance under a Creative Commons Attribution. International License (CC-BY-NC-SA 4.0).

The NIST Cloud Computing Standards Roadmap. NIST Cloud Computing Standards Roadmap Working Group NIST Cloud Computing Program Information Technology Laboratory

Additional learning resources may be found in the Course Offering Information or in Brightspace.

ADDITIONAL INFORMATION

Additional information may be found in the Course Offering Information or in Brightspace.





Learners with a disability (learning, physical, and/or mental health) may qualify for academic and exam accommodations. For more information, or to apply for accommodations, learners should make an appointment with Accessibility Services in the Learner Success Services (LSS) Department. Accessibility Services can also assist learners who may be struggling with learning but do not have a formal diagnosis. To make an appointment visit LSS on the first floor of the south campus or call 403-410-1440. It is the learner's responsibility to contact Accessibility Services and request academic accommodations. For more information, please visit our website at http://www.bowvalleycollege.ca/accessibility.

INSTITUTIONAL POLICIES

Bow Valley College is committed to the highest standards of academic integrity and honesty. Learners are urged to become familiar with and uphold the following policies: Academic Integrity (500-1-7), Learner Code of Conduct, Procedures and Guidelines (500-1-1), Learner Appeals (500-1-12), Attendance (500-1-10), Grading (500-1-6), Academic Continuance and Graduation (500-1-5), and Electronic Communications (300-2-13). Audio or video recording of lectures, labs, seminars, or any other teaching and learning environment by learners is allowed only with consent of the instructor as part of an approved accommodation plan. Recorded material is to be used solely for personal study and is not being used or distributed without prior written consent from the instructor.

Turnitin:

Students may be required to submit their course work to Turnitin, a third-party service provider engaged by BVC. Turnitin identifies plagiarism by checking databases of electronic books and articles, archived webpages, and previously submitted student papers. Students acknowledge that any course work or essays submitted to Turnitin will be included as source documents in the Turnitin.com reference database, where it will be used solely to detect plagiarism. The terms that apply to a student's use of Turnitin are described on Turnitin.com.

Online Exam Proctoring:

Examinations for this course may require proctoring through an online proctoring service. Online proctoring enables online exam taking within a controlled and monitored environment, thereby enhancing academic integrity. Online proctoring may occur through a variety of methods, including but not limited to:

- a. live online proctoring where a remote invigilator authenticates identity and observes completion of an exam using specialized software and recordings;
- b. automated proctoring where the exam session is recorded and AI (artificial intelligence) analyzed;
- c. browser lockdown that limits access to other applications, websites, copying, printing, screen capture and other functions; or
- d. a combination of both live/automated proctoring and browser lockdown.

Course instructors will review recordings, analyses, and data obtained through online proctoring for academic integrity infractions. It is the student's responsibility to meet the technical, software, location, and identity verification requirements necessary to enable online proctoring.



Further details of these policies are available in the Academic Calendar and on the Bow Valley College website, <u>bowvalleycollege.ca</u>.

Learners are encouraged to keep a copy of this course outline for future reference.

Collection of Personal Information:

This course, including your image and voice, may be recorded and made available to you and other students taking the course section. By attending the class(es) online or in person, you consent to the collection of your personal information. If you do not wish to be recorded, please contact your instructor before starting the course/class to discuss alternative arrangements.

You may use the recordings only for educational purposes and you must not copy, share, or use the recordings for any other purpose without the instructor's express permission.

Your personal information is collected in accordance with section 33(c) of the Freedom of Information and Protection of Privacy Act (Alberta) to deliver academic programming, support learner flexibility, promote universal design for learning principles, and for purposes consistent with the course activities and outcomes. If you have any questions about the collection, disclosure, use, or protection of this information, please contact the College's Access and Privacy Officer at foip@bowvalleycollege.ca.