

# ITIS 5401P Managing Information Systems in Organizations Winter 2020

**Instructor: Professor Gerald Grant** 

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**Location: CB 3101** 

Schedule: Ottawa

Friday April 17, 2020 (8.30 a.m. – 1:00 p.m. 2:00 p.m. - 5:30 p.m.) and Friday April 24, 2020 (8.30 a.m. – 1:00 p.m. 2:00 p.m. - 5:30 p.m.) Final Paper (cuLearn online): Monday May 4, 2020, 11:59 p.m.

Digital information technology (DIT) services and systems are central to the business models of almost all organizations around the world. Without them organizations would face severe difficulties delivering on their strategic objectives. Investments in DIT and the related services consume a substantial portion of the investment budget of organizations and therefore require focused attention from both business and DIT managers. The main challenge facing organizational executives is how best to allocate scarce investment resources among the many options for such investments, including DIT, while assuring that the value sought from the spending is delivered. By adopting a services perspective, with the focus being on what the customer values and is willing to pay for, organizations should be able to move beyond technical fixes to provide DIT-based services that are robust, high quality, efficient, effective, and valuable.

### 2019/2020 GRADUATE CALENDAR DESCRIPTION:

Key issues in managing of information systems in organizations. Business and information technology challenges faced by managers and how decisions are made about acquiring, deploying, and using information technologies to achieve business objectives.

### **COURSE DESCRIPTION:**

This course addresses key issues in managing of information systems in organizations. It covers the business and information technology challenges faced by managers and how decisions are made about acquiring, deploying, and using information technologies to achieve business objectives. A central focus of the course is how organizations derive superior business value from their investments in IT systems and services.

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### **LEARNING OBJECTIVES:**

On completion of this course students are expected to have developed an understanding of:

- Key issues facing leaders in making decisions about DIT service delivery in organizations.
- The business imperatives for making investments in DIT systems and services.
- DIT service governance approaches and arrangements.
- ♦ Key issues in managing DIT service performance and risk
- Value realization from investments in DIT services and systems.
- ♦ The critical roles of strategic business and digital leadership in creating the context for value creation and delivery.

### **Prerequisites**:

**Graduate Standing** 

The School of Business enforces all prerequisites.

### **Drop Course Policy**

The deadline for academic withdrawal is the last day of classes (each term).

### **COURSE PROCEDURES AND GRADING:**

The course will be based around readings from the book "The Value Imperative: Harvesting Value from your IT Initiatives" and the case depicted in the book "The Adventures of an IT Leader", lectures, and additional readings from selected sources that illustrate key issues in information systems management. **Students are expected to have read both books before the** 

**start of class.** They are expected to actively participate in the discussions and all associated class activities. The final course grade will be derived as follows:

Group Case Analysis	20%
Individual Assignments	20%
Final Paper	50%
Class participation	10%
Total	100%

#### **Deferred Final Examination:**

Students unable to write a final examination because of illness or other circumstances beyond their control must contact the instructor and the MBA office in writing to request a deferred exam. Permission may be granted when the absence is supported by a medical certificate and or appropriate document/s to support the reason for the deferral.

### REQUIRED READING AND ADDITIONAL READING

**Required Reading:** Grant, G. and Collins, R. (2016) The Value Imperative: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan.

**Case book**: Robert D. Austin, Richard L. Nolan, Shannon O'Donnell (2016), The Adventures of An IT Leader, Boston, MA: Harvard Business Press. (ISBN: 978-1-633-69167-4).

Both books are available in electronic format or in print at Amazon.com and other sources

### **Additional References:**

- ♦ Broadbent, M. and Kitzis, E. S. (2005) The New CIO Leader: Setting the Agenda and Delivering Results, Boston: HBS Press (available at leading bookstores)
- ♦ Pearlson, K. E. and Saunders, C. S. and Galletta (2016) Managing and Using Information Systems: A Strategic Approach 6<sup>th</sup> Edition, Hoboken, NJ, John Wiley and Sons.
- ♦ McNurlin, B. C., Sprague, R. H. and Bui, T. (2009) Information Systems Management in Practice, 8<sup>th</sup> Edition, Upper Saddle River, NJ: Pearson- Prentice Hall.

Additional Readings will be drawn from a variety of sources. These are listed in the course schedule.

# **Online resources:**

### Online Magazines:

<u>CIO</u>, <u>CIO Insight</u>, <u>Datamation</u>, <u>Baseline</u>, <u>Wired</u>, <u>Fortune</u>, <u>Information Week</u>, <u>Business Week</u>, Forbes, Techrepublic, Architecture and Governance, among others.

IT Service Management Forum International (ISTMFi) <a href="http://www.itsmfi.org/">http://www.itsmfi.org/</a>

ITSMF Canada <a href="http://www.itsmf.ca/">http://www.itsmf.ca/</a>, ISACA <a href="https://www.isaca.org/pages/default.aspx">https://www.isaca.org/pages/default.aspx</a> , The Open Group <a href="https://www.itsmf.ca/">www.theopengroup.org</a>

APM Digest <a href="http://apmdigest.com/">http://apmdigest.com/</a>

### **GROUP AND INDIVIDUAL ASSIGNMENTS**

# **Group Analysis of the IVK Corporation Case**

As part of the learning experience in this course we will follow the exploits of Jim Barton, the new CIO at IVK Corporation, as he struggles to understand his new role as CIO and manage the challenges that the corporation faces in delivering value from IT investments. Each session, students working in groups, will present an analysis of the relevant issues being faced by Jim and his team as described in the chapters assigned for that week from the book *Adventures of an IT Leader*.

The presenting group is expected to synthesize the chapters assigned and analyze the significant issues raised. The analysis <u>must employ</u> theoretical ideas presented in class or relevant readings (those assigned and others deemed relevant by the group). In doing the presentation the team is expected to use a variety of strategies that will encourage class participation (example: debates, dramatization, video, etc.). Credit will be given for creativity in presenting the case. Please review the Generic Guidelines for Case Discussion Leadership and Case Presentation Evaluation documents, available on CuLearn, to see how the presentation will be assessed.

# **Individual Assignment**

A series of discussion points or questions, related to each session, will be posted. Each student will be required to do individual write-ups (consisting of 2-3 double-spaced pages) of **two (2) of the discussion points/questions** posted. The objective is to have students give due consideration to the issues emanating from the IVK case and help them prepare for the class discussion. Well thought out and written responses are expected. The professor will assign each student for one (1) of the discussion issues. Each student will choose an additional assignment to complete the two (2) required. The assignments are listed in the Group Case and Individual Assignment document on cuLearn. **You may not write up an individual question on the same case/topic your group is presenting.** There will be no make-up papers for those missed. Late submission of individual assignments will not be accepted after discussion on the topic has taken place in class. **Please check the individual assignment evaluation criteria posted on cuLearn for guidance.** The assignments are due prior to the start of class on the day it will be discussed.

Final Paper: Interview with a Business or IT Leader

Each student will conduct an interview with a local Chief Information Officer /IT manager or a business manager with responsibility for making decisions about IT investments (e.g. Chief Financial Officer, VP of Marketing, etc.). Using the model of the value realization cycle (VRC) in Chapter 5 of Grant and Collins (2016) the interview should cover the following questions: (1) what is the main strategic goal of the organization and how does the investment made in digital information systems fit with the overall strategy? (2) What is the investment in digital information systems that the organization is making and what value is being sought from such investment? (3) What digital information technology asset was created by the investment and what processes were used to acquire the asset? (4) How (has) was the asset (been) applied in the organization and what impact has it had on the business operations? (5) Was the intended outcome achieved? If so how? The questions should not simply be answered separately. The interview should be written up as a short case study in narrative format and should cover the questions along with other relevant information. The document should contain an introduction, a description of the organization and setting, the strategic issue faced by the organization, and a narrative write-up of the answers to the questions above. It should have a conclusion and also include a discussion of your personal point of view including two lessons, from what you have learnt in class (through the cases and readings), that you would like to pass on to the person you interviewed.

The document should be submitted by 11:59 p.m. (23:59) on Monday May 4, 2020 to CULearn.

# **Class Participation:**

Participation by students in class discussion and activities is an important part of this course. Effective participation is possible only by regular class attendance and active pre-class preparation. Given the compressed schedule, you should read the required case and readings before the course begins. You will not gain participation marks simply by asking an obligatory question or two. Nor will such marks be based on the number of questions or comments made. Participation grades will reflect the total impact the student has had on the class over the term, through significant and insightful comments, and a demonstration of good problem-solving and analytical skills.

### **Summary of Deliverables**

Deliverable	Submit to	Due Date	% of
			Grade
Two (2) Individual	CULearn	By start of class on date case	20
Assignments		is assigned (see schedule)	
Group Case Presentation (as	CULearn	By start of class on date case	20
assigned)		is assigned (see schedule)	

Final Paper: Interview with Business or IT Leader	CULearn	By Monday May 4, 2020 by 11:59 p.m.	50

# **Assignment Submission**

All written assignments including the group project should be submitted to the Professor **via CULearn**, on the day they are due. The assignments should be submitted in **.pdf format**. No printed document is required. All documents should have the student's name, number, email address and course section.

It is the student's responsibility to ensure that all assignments are received in an accessible format on or before the due date. Assignments are due at the time indicated. Late assignments will be marked down by 10% for every calendar day late.

# <u>ITIS 5401 Managing Information Systems in Organizations Winter 2020 – Ottawa Tentative Class Schedule</u>

Dates	Topic/Textbook Readings	Cases	Additional Readings (CU Library Online Resources)	Practitioner's Perspective **
April 17 Session 1	Introduction and Class Organization Business and IT challenges for today's organizations  Grant, G. and Collins, R. (2016) Chapter 1: Business and IT Challenges in Today's Organization, in The Value Imperative: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan.	Case: IVK-1: The new CIO IVK-2: CIO challenges	Kappelman, L. Torres, R., McLean, E., Maurer, C., Johnson, V., & Kim, K. (2019). The 2018 SIM IT Issues and Trends Study. <i>MIS Quarterly Executive</i> , 18(1), 51-84.  Gerth, A. B., and Peppard, J. (2014) How newly appointed CIOs take charge, <i>MIS Quarterly Executive</i> , 13(3), 159-173.	Kane, G., Palmer, D., Phillips, A., Kiron, D., Buckley, N. (2019) Accelerating Digital Innovation Inside and Out, MITSloan Management Review access at https://sloanreview.mit.edu/projects/accelerating- digital-innovation-inside-and-out/  Gartner 2020 CIO Agenda: Winning in the Turns https://www.gartner.com/en/publications/2020-cio- agenda  Jeanne Ross: Digital Disruption: Transforming your company for the Digital Economy https://www.youtube.com/watch?v=6Wq6xQxaLGE
April 17 Session 2	IT Leadership and the cost and value of IT investments  Grant, G. and Collins, R. (2016) Chapter 2: The Value Cycle, in The Value Imperative: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan.  Grant, G. and Collins, R. (2016) Chapter 3: The Engineering Model of Business-IT Alignment, in The Value Imperative: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan.	IVK-3: CIO leadership IVK-4: the cost of IT IVK-5: the value of IT	Weill and Woerner (2013) The future of the CIO in a digital economy, MIS Quarterly Executive, 12:2, June, 65-75.  Grant, G. G. (2010) Editorial: Reconceptualizing the concept of business and IT alignment: from engineering to agriculture, European Journal of Information Systems, 19, pp. 619-624.	CapGemini (2018) Understanding Digital mastery today <a href="https://www.capgemini.com/wp-content/uploads/2018/07/Digital-Mastery-DTI-report_20180704_web.pdf">https://www.capgemini.com/wp-content/uploads/2018/07/Digital-Mastery-DTI-report_20180704_web.pdf</a> CIO Insight – Seven Roles of Highly Effective CIOs  Top Leadership Qualities of CIOs <a href="http://video.techrepublic.com.com/2422-14074_11-214893.html">http://video.techrepublic.com.com/2422-14074_11-214893.html</a> Five Habits of Wildly Unsuccessful CIOs <a href="http://video.techrepublic.com.com/2422-14074_11-200130.html">http://video.techrepublic.com.com/2422-14074_11-200130.html</a> The New Voice of the CIO: Insights from Global Chief Information Officer Study. IBM, 2009.
April 17 Session 3	Harvesting Value from IT investments	IVK-6: Project Management	The Agile Admin "What is DevOPs https://theagileadmin.com/what-is-devops/	A Pragmatic Guide to Getting Started with DevOps https://www.ca.com/content/dam/ca/us/files/ebook/a- pragmatic-guide-to-getting-started-with-devops.pdf

Dates	Topic/Textbook Readings	Cases	Additional Readings (CU Library Online	Practitioner's Perspective **
	Grant, G. and Collins, R. (2016) Chapter 4: The Agricultural Model, in The Value Imperative: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan.  Grant, G. and Collins, R. (2016) Chapter 5: The Value Realization Cycle, in The Value Imperative: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan.	IVK-7: The Runaway Project  IVK-10: Crisis IVK-11: Damage	Fernandez, D. J. and Fernandez, J. D. (2008) Agile Project Management: Agilism vs Traditional Approaches, <i>Journal of Computer Information Systems</i> , Winter, 10- 17.  Savage, M. (2002) Business continuity planning, <i>Work Study</i> , 51(5), 254-262.	Hertz vs Accenture https://www.theregister.co.uk/2019/04/23/hertz_acce nture_lawsuit/ https://www.disasterrecovery.org/
April 24 Session 4	Grant, G. and Collins, R. (2016) Chapter 6: Governing IT services, in The Value Imperative: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan  Grant, G. and Collins, R. (2016) Chapter 8: IT Investment Portfolio: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan	IVK-8: IT Priorities  IVK-9: IT and the board of directors  IVK-12: Communication	Andriole, S. (2009) Boards of Directors and Technology Governance: The Surprising State of Practice, <i>Communications of the AIS</i> , 24(22). (Access online or through CuLearn)  Krull, J. and Rich, (2012) 10 Questions Audit Committees should Ask, <i>CPA Journal</i> , 68-71.	Julie Short, Why IT Governance should fall to the board Silicon.com 16 June 2010  IBM – Redesigning the IT Organization – 2014- http://public.dhe.ibm.com/common/ssi/ecm/en/gbe03 551usen/GBE03551USEN.PDF
April 24 Session 5	Building and managing the digital platform  Grant, G. and Collins, R. (2016) Chapter 7: Enterprise Architecture, in The Value Imperative: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan.  Grant, G. and Collins, R. (2016) Chapter 9: Sourcing IT services,	IVK-13: Emerging technology IVK-16: Standardization  IVK-14: Vendor partnering IVK-15: Managing talent	Andriole, Stephen J. (2018) "What executives should know about technology trends, <i>IT Professional</i> , March/April, 80-82. Available at: <a href="https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=8338012">https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=8338012</a> Sako, M. (2010) Outsourcing vs Shared Sevices. <i>Communications of the ACM</i> , 53(7), 27-29.	Enterprise Architecture (MIT) <a href="https://www.youtube.com/watch?v=9IGQm4-HheA">https://www.youtube.com/watch?v=9IGQm4-HheA</a> Amazon.com "What is cloud computing <a href="https://aws.amazon.com/what-is-cloud-computing/">https://aws.amazon.com/what-is-cloud-computing/</a>

Dates	Topic/Textbook Readings	Cases	Additional Readings (CU Library Online Resources)	Practitioner's Perspective **
	in The Value Imperative: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan		Lacity, M. and Reynolds, P. (2014) Cloud Services Practices for Small and Medium- Sized Enterprises, MIS Quarterly Executive, 13 (1), 31-44.	Skills Framework for the Information Age http://www.sfia-online.org/
April 24 Session 6	Managing IT Service Performance and Risk Grant, G. and Collins, R. (2016) Chapter 10: Measuring IT value delivery, in The Value Imperative: Harvesting Value from IT Initiatives, New York, Palgrave MacMillan	IVK-18: Managing risk IVK-19: Looking forward	Smith H. and McKeen, J. (2009) A Wholistic Approach to Managing IT-based Risk http://aisel.aisnet.org/cgi/viewcontent.cgi?art icle=3492&context=cais	
May 4	Final Paper (online with cuLearn)			

### **IMPORTANT ADDITIONAL INFORMATION**

# **Course Sharing Websites**

Materials created for this course (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the author(s). They are intended for personal use and may not be reproduced or redistributed without prior written consent of the author(s).

### Required calculator in BUSI course examinations

If you are purchasing a calculator, we recommend any one of the following options: Texas Instruments BA II Plus (including Pro Model), Hewlett Packard HP 12C (including Platinum model), Staples Financial Calculator, Sharp EL-738C & Hewlett Packard HP 10bII

### **Group work**

The Sprott School of Business encourages group assignments in the school for several reasons. They provide you with opportunities to develop and enhance interpersonal, communication, leadership, follower-ship and other group skills. Group assignments are also good for learning integrative skills for putting together a complex task. Your professor may assign one or more group tasks/assignments/projects in this course. Before embarking on a specific problem as a group, it is your responsibility to ensure that the problem is meant to be a group assignment and not an individual one.

In accordance with the Carleton University Undergraduate Calendar (p 34), the letter grades assigned in this course will have the following percentage equivalents:

A + = 90-100	B+ = 77-79	C + = 67 - 69	D+ = 57-59
A = 85-89	B = 73-76	C = 63-66	D = 53-56
A - = 80-84	B - = 70-72	C - = 60-62	D - = 50-52
E B 1 50			

F = Below 50

Grades entered by Registrar:

WDN = Withdrawn from the course

DEF = Deferred

### **Academic Regulations**

University rules regarding registration, withdrawal, appealing marks, and most anything else you might need to know can be found on the university's website, here:

http://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/

### **Requests for Academic Accommodation**

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

# **Pregnancy obligation**

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: <a href="https://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf">https://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf</a>

### **Religious obligation**

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: <a href="https://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf">https://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf</a>

### **Academic Accommodations for Students with Disabilities**

If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or pmc@carleton.ca for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. carleton.ca/pmc

### **Survivors of Sexual Violence**

As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and is survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: <a href="https://carleton.ca/sexual-violence-support/">https://carleton.ca/sexual-violence-support/</a>

### **Accommodation for Student Activities**

Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. <a href="https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf">https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf</a>

For more information on academic accommodation, please contact the departmental administrator or visit: students.carleton.ca/course-outline

### **Academic Integrity**

Violations of academic integrity are a serious academic offence. Violations of academic integrity — presenting another's ideas, arguments, words or images as your own, using unauthorized material, misrepresentation, fabricating or misrepresenting research data, unauthorized co-operation or collaboration or completing work for another student — weaken the quality of the degree and will not be tolerated. Penalties may include; a grade of Failure on the submitted work and/or course; academic probation; a refusal of permission to continue or to register in a specific degree program; suspension from full-time studies; suspension from all studies at Carleton; expulsion from Carleton, amongst others. Students are expected to familiarize themselves with and follow the Carleton University Student Academic Integrity Policy which is available, along with resources for compliance at: <a href="https://carleton.ca/registrar/academic-integrity/">https://carleton.ca/registrar/academic-integrity/</a>

# **Centre for Student Academic Support**

The Centre for Student Academic Support (CSAS) is a centralized collection of learning support services designed to help students achieve their goals and improve their learning both inside and outside the classroom. CSAS offers academic assistance with course content, academic writing and skills development. Visit CSAS on the 4th floor of MacOdrum Library or online at: carleton.ca/csas

# **Important Information:**

- Students must always retain a hard copy of all work that is submitted.
- All final grades are subject to the Dean's approval.
- For us to respond to your emails, we need to see your full name, CU ID, and the email must be written from your valid CARLETON address. Therefore, in order to respond to your inquiries, please send all email from your Carleton CMail account. If you do not have or have yet to activate this account, you may wish to do so by visiting <a href="https://carleton.ca/its/get-started/new-students-2/">https://carleton.ca/its/get-started/new-students-2/</a>

### Important dates and deadlines

https://sprott.carleton.ca/students/mba/dates-deadlines-policies/