

College of Information
Department of Library
and Information
Sciences

INFO 5307 Knowledge Management Tools and Technologies Fall, 2016

#### **Instructor:**

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# **Course Information**

#### **Course Format**

This course is delivered as an online course, with a supporting Blackboard Learn website. All course materials are provided online, with the expectation that you will obtain other supplemental materials online in order to complete your assignments. Ten learning modules that reflect the most current issues in the knowledge management field are used as a framework to organize and deliver online course materials to students.

### **Course Descriptions**

Introduction to knowledge management (KM) technologies; Internet and Web technologies; Knowledge management processes and corresponding technologies; Collaboration tools and technologies; Information and Knowledge Portals; KM readiness and IT infrastructure; Evaluation and selection criteria for knowledge management tools.

#### **Prerequisites**

Knowledge of personal computer operation is the prerequisite to register for and successfully completing this online course. Students taking this course should be proficient in Microsoft Office tools and are willing to learn new KM tools and technologies.

#### **Learning Modules**

The course content is organized into ten learning modules:

- Module 1: Introduction to Knowledge Management
- Module 2: Knowledge Management Processes & Practices
- Module 3: Knowledge Creation (Mind Mapping/Concept Mapping and Knowledge Networks)
- Module 4: Knowledge Discovery (Data Mining and Business Intelligence)
- Module 5: Knowledge Sharing & Collaboration (Social Media and Social Networks)
- Module 6: Knowledge Organization Tools (Metadata and Ontologies)
- Module 7: Information and Knowledge Portals
- Module 8: Knowledge Retention and Enterprise Content Management
- Module 9: Selection and Evaluation of Knowledge Management Tools
- Module 10: Data Analytics/Visualization Tools supporting Knowledge Management

## **Course Objectives**

After completing this course, the learner should be able to:

- Understand knowledge management processes and practices
- Understand the role of technology in knowledge management
- Identify technology tools associated with managing different types of knowledge
- Identify techniques associated with managing and organizing information such as metadata and ontologies
- Evaluate and develop selection criterion for knowledge management tools
- Research the latest Knowledge Management technologies, tools and techniques.

# **Course Materials**

#### **Textbook**

There is no required textbook.

#### **Recommended Texts**

[1] McInerney, C. R., & Koenig, M. E. (2011). Knowledge management (KM) processes in organizations: Theoretical foundations and practice. Synthesis Lectures on Information Concepts, Retrieval, and Services, 3(1), 1-96.

Abstract: Knowledge Management (KM) is an effort to increase useful knowledge in the organization. It is a natural outgrowth of late twentieth century movements to make organizational management and operations more effective, of higher quality, and more

responsive to constituents in a rapidly changing global environment. This document traces the evolution of KM in organizations, summarizing the most influential research and literature in the field. It also presents an overview of selected common and current practices in knowledge management, including the relationship between knowledge management and decision making, with the intention of making a case for KM as a series of processes and not necessarily a manipulation of things. The final section highlights the use of social networking and commonly adopted Web applications to increase the value of social capital and to connect practitioners with clients and colleagues.

- [2] Rhem, Anthony. J. (2016). Knowledge Management in Practice. Boca Raton CRC Press.
  - Focuses on applying knowledge management (KM) practices, procedures and techniques to solve real world problems. Addresses content management and search engine optimization, capturing and codifying tacit and explicit knowledge. KM in disaster preparedness, action and reaction, how organization should address the KM adoption process, why KM projects fail, and specific industry application of knowledge management.
- [3] Young, R. (2010). Knowledge management tools and techniques manual. Tokyo: Asian Productivity Organization.
  - Introduces twenty essential KM methods and tools and six further recommended tools, both divided into IT and non-IT sections.

## Required Readings, Supplementary Readings

There are supplemental required readings for each of the ten modules. Required readings are listed on the Blackboard course website; they are either directly linked from the website or can be easily retrieved through the UNT Libraries main catalog or electronic resources database (http://www.library.unt.edu/).

# **Course Requirements**

## **Module Learning Activities (40% of Final Grade)**

Each module will have various activities including concept mapping, online discussions regarding how to learn and apply the concepts to the practices and information sharing. Each module will have a single deadline for completion of the reading(s) and discussion participation.

Synthesis Concept Mapping Assignments (25%). As a note-taking tool, students are required to organize/synthesize at least three key concepts from assigned readings for each learning module using the concept-mapping tool, Cmap. A short reading review/reflection is required for each module with assigned readings. Each synthesis will contain a concept map, important quotes, review (reflection), and references. The students will receive a grade of 0-100 based on the average of peer grading and instructor grading. Students should post their synthesis concept map to a wiki page on PBWorks that is saved in the module folder and then submit the link (to the assignment page on PBWorks) using Blackboard Assignment. Students will have to submit minimum seven concept map assignments. Students who are willing to submit all nine concept mapping assignments will have the advantage of dropping their two lowest grades. Only seven **highest grades** will be considered.

Online Discussions (15%). All students will be expected to monitor current knowledge management news and/or studies and provide with links to news, publications, or case studies relevant to the topics of learning modules. These will help students keep informed of recent KM developments in different industries and learn from each other's perspective through online information sharing and discussions. Students should share current information or resources relevant to the corresponding module topic and respond constructively to at least one student's posting. The postings should be at least 100 words based upon and refer to the information source(s). Students will have to submit minimum seven discussion posts. Students willing to submit all nine discussions will have the advantage of dropping their two lowest grades. Only seven highest grades will be considered.

### **Book Summary Report (20% of Final Grade)**

For this assignment, choose a book from the recommended book list or propose a book not on the list (ask the instructor). Read the book and prepare a summary report (in the format of presentation file containing at least twenty slides) to share with the class. Title the review with the title of the book, followed by the author's name and the year in parentheses. Students should summarize the book content and describe its contribution to the knowledge management field, so other students who have not read the book understand the essence of the book content. In terms of book summary, students may choose to focus on a few key chapters within the book if those appear to be most relevant to knowledge management tools and technologies. Regarding the contribution, place the book in disciplinary perspective: For what discipline(s) or applied domain(s) was it written? How does it pertain to knowledge management tools and technologies? What impact do you think this book has had on knowledge management?

### Final (Research) Project (40% of Final Grade)

During this semester, students are required to work individually or in groups on a term project. The final project should be related to one of the knowledge management (KM) tools/technologies and their implementations. This include but not limited to one of the following areas:

- Selection and evaluation of a specific KM tool or technology
- Development of a knowledge portal or a Wiki (e.g., PBWorks) that can serve as a resource for information on KM technologies
- Development and implementation of a KM tool/technology project within an organization
- Development of a specific KM services using KM tools/technologies
- Innovations in any KM tool/technology.

The first step in the project is to identify the topic, write a two-page project proposal (10%), and get the approval of the instructor no later than October 10th. Students are required to submit a one-page summary on the project progress (5%) by November 14th. The final project report (25%) is due December 8th.

Students will work individually or collaboratively in this project. Each student will use PB Works to create Wiki pages and document the report. The requirements include at least 8 Wiki pages (excluding References or Appendix) describing the chosen topic, lesson learned and the implications to the knowledge management fields.

Students will be expected to cite reliable sources for the references and document their sources based on the APA Manual of Style. During the last week of class, the students will give presentations online in which they will describe their projects and what they learned. Length of presentations will depend upon course enrollment.

# **Assessment and Grading**

Assignment grading is based on rubric attached to each assignment description on Blackboard.

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Activities	Grading Percentages
Module Learning Activities	40%
Book Summary Report	20%
Final Project	40%

### **Grading Scale**

The UNT scale for grading is as follows:

A (Excellent work) = 90 - 100 points

B (Good work) = 80 - 89 points

C (Fair work) = 70 - 79 points

D = 60 - 69 points

F = 59 points and below

#### **Grading Timeframe**

You can expect to receive a grade for any graded assignment approximately seven days after the assignment's due date. If you submit an assignment before the due date, please do not include early days in your day count. The instructor will contact the students if the grading goes beyond that timeframe.

# Course Schedule (subject to change at instructor's discretion)

No.	Week	Activities	Assignment Due
1	8/29 ~ 9/5	Welcome and Course Introduction (PB Works orientation assignment)  Read syllabus to get an overview of the	9/5
		course, do PBWorks orientation assignment	

No.	Week	Activities	Assignment Due
		(on PB Works), and self-introduction (Blackboard Discussion Forum)	
2	9/6 ~ 9/12	Module 1 Concept Map (on PB Works) and Discussion post (BlackBoard)	9/12
3	9/13 ~ 9/19	Module 2 Concept Map (on PB Works) and Discussion post (BlackBoard)	9/19
4	9/20 ~ 9/26	Module 3 Concept Map (on PB Works) and Discussion post (BlackBoard)	9/26
5	9/27 ~ 10/3	Module 4 Concept Map (on PB Works) and Discussion post (BlackBoard)	10/3
6	10/4 ~ 10/10	Final Project Proposal	10/10
7	10/11 ~ 10/17	Module 5 Concept Map (on PB Works) and Discussion post (BlackBoard)	10/17
8	10/18 ~ 10/24	Module 6 Concept Map (on PB Works) and Discussion post (BlackBoard)	10/24
9	10/25 ~ 10/31	<b>Book Summary Report Presentations</b> (on PB Works)	10/31
10	11/1 ~ 11/7	Module 7 Concept Map (on PB Works) and Discussion post (BlackBoard)	11/7
11	11/8 ~ 11/14	Module 8 Concept Map (on PB Works) and Discussion post (BlackBoard)  Final Project (Progress) Summary	11/14
12	11/15 ~ 11/21	Module 9 Concept Map (on PB Works) and	11/21
		Discussion post (BlackBoard)	
13	11/22 ~ 11/28	Module 10 (No Assignment)  Happy Thanksgiving Holidays (11/24-27)	
14	11/29 ~ 12/5	Final Project Presentations (via GoToMeeting)	TBD

No.	Week	Activities	Assignment Due
15	12/6 ~ 12/12	Final Project Report	12/8

# **Technical Requirements / Assistance**

The following information has been provided to assist you in preparation for the technological aspects of the course. The University Information Technology (UIT) Helpdesk offers helpful resources and addresses any issues that might arise with Blackboard Learn. http://www.unt.edu/helpdesk/

1. Be sure you are using a supported web browser: http://help-archives.blackboard.com/Blackboard-Learn/9.1/SP09/EN-US/NAHE/student/Content/ about/about browsers.htm?SearchType=Stem&Highlight=S P9

Commonly used 3<sup>rd</sup> party plug-ins you may need to install for this course:

- Acrobat Reader
- Real Player
- Flash
- Shockwave
- Windows Media Player
- The above are accessible via http://remedy4.ars.unt.edu:8080/rkm/viewdoc.jsp?doc=372&sid=17234&type=Publis hed&terms=quick searchTerms&user=Self%20Help
- 2. Additional help for using Blackboard Learn:

http://help-archives.blackboard.com/Blackboard-Learn/9.1/SP09/EN-US/NAHE/student/index.htm

The UIT Helpdesk recommends using Java version 7 update 10. You will need word processing software such as Word 2010. Acceptable file formats include .txt, .rtf, .doc, and .docx.

#### 3. Student Support

The University of North Texas provides student technical support in the use of Blackboard and supported resources. The student help desk may be reached at:

Website: http://www.unt.edu/helpdesk/

Phone: 940.565-2324 In Person: Sage Rm. 130

Regular hours are maintained to provide support to students. Please refer to the website

for updated hours.

## **Access & Navigation**

### **Access and Log in Information**

This course was developed and will be facilitated utilizing the University of North Texas' Learning Management System, Blackboard Learn. To get started with the course, please go to: https://learn.unt.edu/.

You will need your EUID and password to log in to the course. If you do not know your EUID or have forgotten your password, please go to: https://ams.unt.edu/.

#### • Blackboard Learn Student Orientation

As a student, you will have access to the "Blackboard Learn Student Orientation" tutorial via Blackboard Learn. You are strongly encouraged to become familiar with the tools and tutorials within the student orientation to better equip you to navigate the course.

## **Accessing Grades**

As assignments are graded, grades will be posted in the class grade book. Effort will be made to complete grading and post grades expeditiously, so please be patient. If a student has a question about a grade, please consult the rubric first before contacting the instructor.

### **Assignment Submission Instructions**

Please do not wait until the last minute to post assignments as technical problems may occur.

## **IT Resources**

- UNT Portal: http://my.unt.edu
- UNT Blackboard Student Resources: Technical Support: http://www.unt.edu/helpdesk/bblearn/
- General access computer lab information (including locations and hours of operation) can be located at: http://www.gacl.unt.edu/
- UNT Library Information for Off-Campus Users: http://www.library.unt.edu/services/facilities-and-systems/campus-access
- UNT Computing and Information Technology Center: https://citc.unt.edu/help-support/students
- Computer Lab at Discovery Park: http://www.ci.unt.edu/main/ViewPage.php?cid=235

# **Policies**

#### **ADA Accommodation**

If you have a disability and require accommodation under the terms of the federal Americans with Disabilities Act (ADA), you must present a written accommodation request to the primary instructor by the end of the second week of the semester.

You should submit a request even if it is possible that accommodation may not be necessary later in the semester. You should register with the UNT Office of Disability Accommodation (ODA; http://www.unt.edu/oda/ or 940-565-4323), which provides many kinds of support services.

Procedures are explained in the Disability Accommodation Policy 18.1.14 in the UNT Policy Manual (http://www.unt.edu/policy/UNT\_Policy/volume3/18\_1\_14.html)

### **Netiquette**

Free of Disruptions - Students have the right to pursue an education without disruption or interference and to expect enforcement of norms for acceptable classroom behavior that prevents disruption of the teaching/learning process.

**Responsibility:** Students may not disrupt class or any other University process by any means whatsoever (including sideline conversations, comments, arguments, noise of any kind or other activity which would hinder access to or utilization of academic information)

--#8 from "The Ten Student Academic Rights and Responsibilities", UNT Code of Student Conduct

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT.

Students engaging in unacceptable behavior will be barred from the classroom/course website and the instructor may refer the student to the Center for Student Rights and Responsibilities to consider whether the student's conduct violated the Code of Student Conduct. The university's expectations for student conduct apply to all instructional forums, including university and electronic classroom, labs, discussion groups, field trips, etc.

Only topics related to the course content should be discussed during class time. Talking out-ofturn during a lecture/chat or engaging in inappropriate discussions in the Discussion boards is distracting to others in the class.

Failure to follow these guidelines will result in your:

- being asked to leave the classroom and/or instructor **barring** you from the course website,
- receiving a "zero" on class activities (assessment, assignment, test, etc.), and
- possibly being referred to the Center for Student Rights and Responsibilities (see above information and web address)

Therefore, be respectful of the instructor and other students around you.

# **UNT Policies**

#### **Academic Honesty Policy**

You are encouraged to become familiar with the University's Policy of Academic dishonesty found in the *Student Handbook*. The content of the Handbook applies to this course. Additionally, the following specific requirements will be expected in this class: (enter specific requirements). If you are in doubt regarding the requirements, please consult with me before you complete any requirements of the course.

### **ADA Policy**

The University of North Texas is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 92-112 – The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act (ADA), pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing population with the same opportunities enioved bv this all citizens.

As a faculty member, I am required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty of their need for accommodation and in providing authorized documentation through designated administrative channels. Information regarding specific diagnostic criteria and policies for obtaining academic accommodations can be found here. Also, you may visit the Office of Disability Accommodation in the University Union (room 321) or call us at (940) 565-4323.

## **Add/Drop Policy**

Please refer to the UNT Faculty Handbook or your department regarding the Add/Drop Policy.

#### **Code of Conduct**

Please refer to the UNT Faculty Handbook or your department regarding the Student Code of Conduct Policy.

# **Important Notice for F-1 Students taking Distance Education Courses:**

## **Federal Regulation**

To read detailed Immigration and Customs Enforcement regulations for F-1 students taking online courses, please go to the Electronic Code of Federal Regulations website at http://ecfr.gpoaccess.gov. The specific portion concerning distance education courses is located at "Title 8 CFR 214.2 Paragraph (f)(6)(i)(G)" and can be found buried within this document: http://frwebgate.access.gpo.gov/cgi-bin/getcfr.cgi?TITLE=8&PART=214&SECTION=2&TYPE=TEXT

#### The paragraph reads:

(G) For F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken on-line or through distance education and does not require the student's physical attendance for classes, examination or other purposes integral to completion of the class. An on-line or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no on-line or distance education classes may be considered to count toward a student's full course of study requirement.

## **University of North Texas Compliance**

To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in an on-campus experiential component for this course. This component (which must be approved in advance by the instructor) can include activities such as taking an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student's responsibility to do the following:

- (1) Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.
- (2) Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the International Student and Scholar Services Office. ISSS has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about his or her need to participate in an on-campus experiential component for this course, s/he should contact the UNT International Student and Scholar Services Office (telephone 940-565-2195 or email international advising @unt.edu) to get clarification before the one-week deadline.