Okanagan College:

Course: COSC 205 – Software Project Management

Winter Session 2017 ( Kelowna )

Lecturer & Lab: Deborah Warren Kelowna Office: E315 Phone: Ext. 4389

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Lecture: Room: H115 Day: Tues Time: 12:00 - 1:20 p.m.

Room: H115 Day: Fri Time: 1:30 – 2:50 p.m.

Lab: Room: C288 Day: Monday Time: 11:30-1:30 p.m.

Office Hours: Room: E315 Mon: 2:00 - 4:00 pm Other times: By appointment

**Required Text:** *(both texts are on reserve in the library)*

DeMarco, T., (1997) *The Deadline*

Published by Dorset Publishing, New York NY.. ISBN 0-932633-39-0

Schwalbe, K., (2015) *Information Technology Project Management*

ISBN-10: 1285452348 ISBN-13: 978-1285452340

**Course Description:** This course focuses on the business cycle as it relates to software development including: planning, organizing, directing, monitoring and control. Particular emphasis is given to scheduling practices and solving problems when the project is behind schedule. Students will be enrolled in a computer science capstone project course concurrently and will practice implementing a variety of problem solving strategies.

**Evaluation:** Lab-12 labs 24

Moodle pre-reading quiz 11

Book Review and presentation 15

Midterm - 2 hours in lab

– 4 essay questions 20

Final Exam - 3 hours on Ch 5-12

* 6 essay questions 30

Total 100

**Significant dates (2017):**

Jan 3 Classes begin

Jan 13 Last day course change

Feb 13-17 Reading Break

March 3 Last day course withdrawal

April 10 Classes end

April 14/17 Easter /Stat holiday

April 12-26 Final exam period

**Book Review**: Read a book that relates to “Software Project Management”

Add entry to Moodle Discussion forum: Title of book

Ten minute presentation, 5 minutes of discussion (5 marks)

Resource Review: 5 pages in length. (10 marks)

In Book Review discussion forum, submit an attachment of a handout with a list of relevant bullet points from your 5 page paper. (1 mark)

In your paper answer the following questions:

1. Was this book relevant to “Software Project Management”? If so, explain.
2. What will you remember one week from now? One year from now?
3. How would you use this information if you were a junior programmer reporting to a project lead (or manager).
4. Would you recommend that a project manager read it?

**Course Content:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Lecture Topic | Student  Presenting? | Lab assignments | Pages from Text | Week Begins |
| Smush together with Cosc 224, choose team and project, meet with sponsor |  | Stat holiday on Monday |  | Jan 3 |
| Principles of Human Psychology  Mythical Man Month  Sample Book review | All students sign up for:   * Book Review (BR) | Smushing continues … write requirements, get sponsor acceptance email by week’s end |  | Jan 9 |
| Ch 1: Introduction  Ch 2: IT Context | 1. BR: 2. BR: | JIRA Agile Prepare  Config Drupal Mod | Jan 17 -Weekly  Moodle quiz closes  Each Tues | Jan 16 |
| Ch 3: Process Groups | 1. BR: 2. BR: | JIRA Agile Start Sprint  Config Drupal Mod |  | Jan 23 |
| Ch 4: Integration | 1. BR: 2. BR: | JIRA Agile Report  Config Drupal mod |  | Jan 30 |
| Ch 5: Scope | 1. BR: 2. BR: | Team contract  Risk analysis  SWOT analysis |  | Feb 6 |
| **Reading Break** |  |  |  | **Feb 13-17** |
| Ch 6: Time Management | 1. BR: 2. BR: | Change request policy  PERT: Estimating duration of tasks |  | Feb 20 |
| Ch 7: Project Cost | 1. BR: 2. BR: | sponsor pay for your project? |  | Feb 27 |
| Midterm –  4 / 7 Essay Questions | Monday in lab March 6  1:00 – 2:50 p.m. | \*\*\* During lab period |  | March 6 lab |
| Ch 8: Quality | 1. BR: 2. BR: | See midterm above |  | March 6 lectures |
| Ch 9: Human Resources | 1. BR: 2. BR: | The Deadline:  Group discussion | DeMarco  p 1 - 94 | March 13 |
| Ch 10: Communications | 1. BR: 2. BR: | The Deadline   * Group discussion | DeMarco  p 95 - 162 | March 20 |
| Ch: 11 Risk Management | 1. BR: 2. BR: | The Deadline   * Group discussion | DeMarco  p 163-238 | March 27 |
| Ch 12: Procurement | 1. BR: 2. BR: | The Deadline   * Group discussion | DeMarco,  p 239- 310 | April 3 |
| Last Day of classes  Monday April 10 | Software Evaluation: weighted rating system | Activity - Post mortem |  | April 10  Lab only |
| **Final Exam: Apr 12-26** |  |  |  |  |
| **Easter break** |  |  |  | **Apr 14-17** |

**Resource List:**

***Week 1:***

Hours of Work at Entertainment Arts: very famous EA Spouse blog & $15 million OT settlement

2004: <http://ea-spouse.livejournal.com/274.html>

2006: <http://www.gamespot.com/articles/ea-settles-ot-dispute-disgruntled-spouse-outed/1100-6148369/>

***Week 9:*** …. Quality Management: Hitting the High Notes

<https://www.joelonsoftware.com/2005/07/25/hitting-the-high-notes/>

**Okanagan Library**

All the books in the list below can be requested through Interlibrary Loan (ILL). They usually arrive within two weeks. <http://webapps-5.okanagan.bc.ca/ok/OCLibraryILL_Ordering/OCLibraryILL/Default.aspx>

**Review & Presentation Resources:**

You may choose ANY book and make a case for how why a project manager might want to read it, and how they may reflect on project management …but here are my suggestions:

|  |  |  |
| --- | --- | --- |
| Classic? | Author / Title | Subject |
|  | **Bronson, Po (1999) Nudist on the Late Shift: And Other True Tales of Silicon Valley. Publisher: Random House Inc; (ISBN: 0375502777)** | **Journalism** |
|  | Black, W. (2005) The Best Way to Rob a Bank is to Own One. | History |
|  | **Coupland, D. (1996). Microserfs. Published by Regan Books. (ISBN: 0060987049)** | **Fiction** |
| **\*\*** | DeMarco, T., (1998) *Peopleware: Productive Projects and Teams, 2nd edition* Published by Dorest Publishing, New York NY ISBN 0-932633-43-9  ***…….(or any of his other books)*** | PM |
| **\*\*** | DeMarco, T. Waltzing with Bears | PM |
|  | Jackson, Tim (1997) Inside Intel: Andy Grove and the Rise of the World's Most Powerful Chip Company. Dutton Books (ISBN: 052594141X ) | Biography |
|  | Lapham, L. (1989) Money and Class in America: Notes and Observations on the Civil Religion. Ballantine Books; (ISBN: 0345358716) | Sociology |
|  | Lapham, L. (1993) The Wish for Kings: Democracy at Bay. Pub Group West; (ISBN: 0802114466) | Sociology |
|  | Lewis, Michael (2011) The Big Short: Inside the Doomsday Machine |  |
| **\*\*** | McConnell, Steve Morgan, G. (1996) Rapid Development: Taming Wild Software Schedules  ***…….(or any of his other books)*** | PM |
| \*\*\* | **Mitnick, K. & Simon, W. (2003) The Art of Deception: Controlling the Human Element of Security** | **Psychology /**  **Security** |
|  | Mitnick, K. & Simon, W. (2005 ) The Art of Intrusion Wiley (December 27, 2005) | Psychology /  Security |
|  | Morgan, G. (2006) Images of Organization. Published by SAGE Publications. (ISBN: 0761906320) | Organizational  Behaviour |
| **\*\*** | Yourden, Ed (2003) Death March | PM |

**\*\* *The above books that are starred, are considered to be classics in the field.***

Biographies: Steve jobs, Bill Gates, Andy Grove, Jonathon Ives?

iCon Steve Jobs, The Greatest Second Act in the History of Business by Jeffrey S. Young and William L. Simon. John Wiley & Sons © 2005

Steve Jobs by Walter Isaacson (2011)

Idea Man: A Memoir by the Cofounder of Microsoft by Paul Allen Portfolio Hardcover (April 19, 2011)

Companies: Google, IBM …. Uber?

In The Plex: How Google Thinks, Works, and Shapes Our Lives by Steven Levy Published by Simon & Schuster (April 12, 2011)

The Decline and Fall of IBM: End of an American Icon? (2014) by Robert Cringely

SW Development Personnel / Human Resources:

Wisdom of Psychopaths by Kevin Dutton

Journal of Best Practices by David Finch

Team Geek by Brian Fitzpatrick and Ben Collins-Sussman … I used to write code now I write emails

Business: 2016 Globe and Mail - Best Books in Business

<http://www.theglobeandmail.com/report-on-business/careers/management/ten-books-to-top-your-business-reading-list/article33216094/>

2015 Globe and Mail - Best Books in Business

<http://www.theglobeandmail.com/report-on-business/careers/management/top-10-business-books-of-the-year/article6212538/>

2014 Globe and Mail - Best Books in Business

<http://www.theglobeandmail.com/report-on-business/careers/management/the-top-business-books-of-2014/article22009299/>

Learning Outcomes:

1. Students will need to demonstrate their ability to communicate orally and in writing on a wide variety of management issues. These experiences are meant to develop an appreciation for the primary role of a manager – being a communicator.
2. Students will practice presenting to a group.
3. Students will be introduced to management concepts related to: organizational behavior, return on investment metrics, project planning and procurement
4. Students will use a basic install of JIRA software for agile software development.
5. Students will review issues specific to software development – the constraints on the project due to time, scope and quality.
6. Students will explore the difficulties that occur when assessing quality, risk and schedule slippage when developing software.