Summer 2020

CS 485-450: Special Topic - Introduction to Real World Project Mapping with PMP

Osama Eljabiri

CS485-131: Intro to Real-World Project Management
Summer 2020 (Thursdays 6-8PM)

Instructor

Name/Title: Osama Eljabiri, Ph.D., Senior University Lecturer & Director of CCS Capstone Program

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Bio: https://www.linkedin.com/in/eljabiri/

Office Hours: One hour before and after class via WebEx and non-stop support via Slack.
Online help: Virtual office via WebEx, Slack and email

Class Time/ Location: https://njit.webex.com/meet/oe2

Virtual Classroom System: http://MOODLE.njit.edu and http://canvas.njit.edu

Course

Course format: Online

Course and section numbers: CS485-131

Pre-requisites: None. The course is open to all students at NJIT and Rutgers as long as they have the passion to learn project management skills.

Special features: <u>NO traditional final exam and NO traditional homework</u> since the course uses team-based projects, simulation challenges, hands-on exercises, and course activities to complete course requirements instead.

Credit: This is a 3-credit hour academic course that can be used as a technical or general elective. Please ask for your advisor approval.

Who should take this course?

ANY STUDENT at the university interested in managing projects successfully can take this course. Since Project Management, Information Technology and software development are very multidisciplinary in nature, this course can benefit a broad range of students across all university colleges from all backgrounds and disciplines including but not limited to: Information Systems, Information Technology, Software Engineering, Communication, Business, Architecture, Engineering, Science, and Finance.

Project management principles and strategies are very generic and can be applied to everything in our life. While CCS and engineering students will find this course applicable to managing software and technology projects from defining requirements to building teams to creating high-quality services and products, business, humanities, science and communication students will find it relevant to supply chain management, financial management, psychology, organizational behavior, leadership, empirical research, math, statistical analysis and communication strategies. It is the kind of course that belongs to everyone and makes every student feel it is relevant to her/his interest.

Course Description

The software and technology projects we implement have grown exponentially in complexity, scale, scope, budget, and risk. Customers today are more sophisticated and have a broad array of needs across numerous business processes, entities and value chains. This course adopts a hands-on real-world skill-building approach to allow students to master project management principles and techniques from a PMP professional perspective across the ten key project management knowledge areas (i.e.: scope, stakeholders, time, cost, quality, human resources, communication, risk, procurement and integration) while addressing what project managers need to understand about managing and leading projects in business today. The adaptive curriculum includes best practices in navigating more complex organizations, diverse stakeholders' requirements, and tighter delivery deadlines.

In this course, students will learn numerous project management techniques and strategies including preparing for professionally recognized international certificates such as CAPM & PMP exams. This course covers how to optimize software and technology problem solving and delivery processes so projects can be delivered on time, on target and on budget. While the course is considered generic and applicable to all backgrounds, is has software and technology real-world emphasis in terms of examples, hands-on activities and walk-through projects.

Course Objectives:

Upon successful completion of this course participants will:

* Master the ten knowledge management areas in project management according to international professional standards

* Understand how to be an effective leader, team builder, motivator, communicator and problem solver as a PM

* Have the ability to define the Scope of software or IT project

* Master time management strategies

* Know the characteristics of cost-effective software or IT projects

* Understand how to compensate for uncertainty in software or IT project by managing risk effectively * Course

Pedagogy:

In addition to lecture notes, the course will deploy:

- Hands-on lectures

- Class discussions

- Videos

- Learning games

- Individual and team activities - Real-world scenarios.

- Industry guest speakers (when available)

- Project-based Learning (as necessary)

Course Schedule (Summer 2020)

No	Date	Time 6PM—8PM	Topic
1	**Thursday, May 21**	Online - WebEx	• Introduction to project management Framework, Life Cycle & Organization/ Processes • Project Feasibility Analysis
2	**Thursday, May 28**	Online - WebEx	• Project SCOPE Management • Project Stakeholders Management
3	**Thursday, June 4**	Online - WebEx	Project HUMAN RESOURCES Management

4	**Sunday, June 11**	Online - WebEx	Project Communication Management
5	**Sunday, June 18**	Online - WebEx	Project QUALITY Management & Six Sigma
6	**Thursday June 25**	Online - WebEx	Project RISK Management
7	**Thursday, July 2**	Online - WebEx	Project Time Management
8	**Thursday, July 9**	Online - WebEx	Project Cost Management
9	**Thursday, July 16**	Online - WebEx	PMP math review
10	**Thursday, July 23**	Online – Moodle	CAPM Simulation test
11	**Thursday, July 30**	Online – Moodle	PMP Simulation test

Course Evaluation:

Please see the detailed evaluation described in an adjoining document

Osama Eljabiri, Ph.D.