ID-GEN 103: User Experience Design and Development

Instructor

TBA

Phone

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Email

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Office Location

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Office Hours

By appointment

Course Overview

Introduction to the fundamental components of UX design, based on Design Thinking. This is a project-based course where students learn the basic principles and methods, composed of user research, concept generation, human-centered visual design principles, and low-fidelity prototyping. This course encourages students to experiment with emerging online tools such as Lucid, Notion, Figma,and Wix.

- Develop knowledge in basic UX analysis critical thinking.
- Identify aspects of strengths or weaknesses of interfaces and make suggestions for improvements.
- Explore elements and principles of UX design to support creative goals.
- Understand and apply web design guidelines.
- Create based on the cycle of UX design from user research to low-fidelity prototype.
- Be knowledgeable about usability testing and iteration.

Required Texts

- N/A

Course Materials

PDF lecture slides, lecture videos, assignment templates, assignment examples such as previous student works will be provided for each lecture.

Expectations

Students are expected to watch the lecture videos and do the activity homework each week. Estimated time spent including the lecture videos is approximately 2 hours. (Lecture video: 20 ~ 30 minutes, Homework: 1 hour to 1 and a half hours).

Evaluation

Attendance   20%
Midterm and Final   40% (20% each)
Exercises   20%
Any other homework and class participation 20%

Midterm

Exam

•   30 multiple questions on LMS.

Project

•   Collection of the in-class exercises from the Discover Phase and Define Phase in the Double Diamond Process. Revisit each process of UX design and refine. Submit a list of the exercises' links to the online tools in a single PDF document.

Final

Project

•   Part 1: Collection of the in-class exercises from the Develop Phase and Deliver Phase in the Double Diamond Process. Revisit each process of UX design and refine. Submit a list of the exercises' links to the online tools in a single PDF document.

•   Part 2: A low-fidelity prototype website based on the UX principles taught in the course. Submit a link to the online tools on LMS.

Attendance

As noted, attendance is mandatory, and excuses must follow university policies. As one cannot participate when absent, students should also be aware that missing a class will impact their participation score.

Classroom Ethics

Academic dishonesty

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Course Calendar

No.	Subject	Assignments
1	Introduction	Discover Phase - Define Phase
2	Double Diamond Process - Discover Phase	SWOT Analysis
	5 UX Design Principles	Visual Hierarchy (using scale, color or lines and planes)
3	Discover Phase - Discover Phase	Empathy Map, User Journey Map
	5 UX Design Principles	Consistency, Balance
4	Discover Phase - Discover Phase	Empathy Map
	5 UX Design Principles	Gestalt principles, Contrast
5	Discover Phase - Define Phase	Persona, Mood boards
	5 UX Design Principles	Figma animation

No.	Subject	Assignments
6	Discover Phase - Define Phase	Affinity Diagram
	Course review	_
7	Discover Phase - Define Phase	Mind map
	5 UX Design Principles	Logo
8	Discover Phase - Define Phase	Midterm
	5 UX Design Principles	Color scheme
9	Double Diamond Process - Develop Phase	Information architecture, User Flow
	5 UX Design Principles	wix.com
10	Double Diamond Process - Develop Phase	Business Model Canvas
	5 UX Design Principles	wix.com
11	Double Diamond Process - Develop Phase	Usability testing and iteration
	5 UX Design Principles	Main components of a webpage
12	Double Diamond Process - Deliver Phase	Branding
	5 UX Design Principles	Basic programming languages – HTML, CSS
13	Double Diamond Process - Deliver Phase	Style guide
	5 UX Design Principles	Basic programming languages – JavaScript
14	Double Diamond Process - Deliver Phase	Final
	5 UX Design Principles	Basic programming languages – HTML, CSS , JavaScript

ID-GEN 104: Leadership and Teamwork

Instructor

TBA

Phone

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Email

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Office Location

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Office Hours

By appointment

Course Overview

<Leadership and Teamwork> introduces basic concepts of leadership theories and aims to prepare student for leadership role. We will examine the evolution of leadership theory and explore personal leadership philosophy. This course views leadership as a process rather than as neither an inherent quality of an individual or as position or power. Based on the Relational Model of Leadership suggested by Komives, Lucas, & McMahon (2013), we analyze how interaction between leader and group members shape the leadership process and bring change to groups and society.

Course Objectives

Develop student knowledge of leadership and teamwork while developing a capacity to interpret and evaluate basic concepts of leadership

Explore one's own strengths, values, and ways of being as a leader and follower

Understand the complexity of leadership in organizations that are made of many intersecting groups.

Recognize the nature of a changing work environment and understand the need for adaptive skills with a strong sense of personal responsibility

Required Texts

Komives, S.R., Lucas, N, & McMahon, T.R. (2013*). Exploring leadership: For college students who want to make a difference.* San Francisco: Jossey-Bass.

Wagner, W., Ostick, D.T., and Associates (2013). *Exploring leadership: For college students who want to make a difference*. Student Workbook. San Francisco: Jossey-Bass.

Course Materials

PowerPoint slides will be provided for each lecture.

Expectations

Students are expected to take lectures and do the activity homework each week. During the facilitation session, students will discuss activity homework in small groups.

Evaluation

Attendance (Lecture/TA session)	20%
Activity, Homework	20%
Assighment1 (Leadership autobiography)	10%
Assignment2 (Strengths & Value Reflection)	10%
Assignment3 (Personal Leadership Philosophy)	10%
Final Exam	30%

Activity   Homework (2 point each, total 20points)

There are activity homework for chapters 1 to 11,   Students are required to submit a written report for one of the activities covered in class. These activities are presented in the student workbook required for the course. Answer to these activities will be discussed in small group during the TA session.

Assignments (10 point each, total 30 points)

#1. Leadership Autobiography (Due beginning of the 3rd week)

○ What influences have had the most profound impact on your beliefs, behaviors, and approach to leadership? In this paper, you will share three stories about4transformative experiences or relationships in your life. Each story will focus on a person, place, experience, and/or identity that has shaped your worldview and your definition of leadership. [3--4 pages in length]

#2. Strengths & Values Reflection (Due beginning of the 8th week)

○ After completing the Clifton Strengths for Students assessment, this paper will encourage you to reflect deeply on your core values and your Top 5 Talent Themes, including critical deconstruction of trait theories and personal analysis of the experiences and identities that inform your Top 5. [3--4 pages in length]

#3. Personal Leadership Philosophy (Due beginning of the 14th week)

○ The Personal Leadership Philosophy paper serves as a capstone reflection. Based on readings, activities, and engagement in and out of the classroom this semester, discuss how your philosophy of leadership has evolved over time. This paper will include reflection about your own leader identity, your personal definition of leadership, and goals for continual leadership development during your college life . [5--6 pages in length]

Midterm and Final Exam

Midterm exam is replace with Assignment #2.

Final exam will be given at the end of a course. The schedule will be posted later.

<u>**Exam Schedule**</u>

Week	Assessment	Date
Week 8	Assignment #2	
Week 15	Final Exam	

<u>**Attendance**</u>

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<u>**Classroom Ethics**</u>

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<u>**Course Calendar**</u>

The readings for this course supplement the weekly lectures.

Week	Subject	Reading/ Assignments
Week 1	Introduction to the course.	None
Week 2	Introduction to leadership	Chapter1 /Activity homework (Ch.1 - Activity #3)
Week 3	Changing nature of leadership	Chapter 2 / Activity homework (Ch.2-Activity#3) /Assignment#1 (Leadership autobiography) due.
Week 4	The Relational Leadership Model	Chapter 3 / Activity homework (Ch.3-Activity #1)

Week	Subject	Reading/ Assignments
Week 5	Understanding Yourself	Chapter 4 / Activity homework (Ch.4-Activity #1)
Week 6	Understanding Others	Chapter 5 / Activity homework (Ch.5- Activity#1)/
Week 7	Leading with Integrity	Chapter 6 / Activity homework (Ch.6 - Activity#3)/
Week 8	Midterm (no class)	Assignment #2 (Strengths and Value Reflections) due.
Week 9	Being in Communities	Chapter 7 / Activity homework (Ch.7- Activity#2)/
Week 10	Interacting in Teams and Groups	Chapter 8 / Activity homework (Ch.8- Activity#6)/
Week 11	Understanding and Renewing Complex Organizations	Chapter 9 / Activity homework (Ch.9 Activity#5)/
Week 12	Understanding Change	Chapter 10 / Activity homework (Ch.10 - Activity#1)/
Week 13	Strategies for Change	Chapter 11 / Activity homework (Ch.11 Activity#6)/
Week 14	Thriving Together	Chapter 12 / Assignment #3 (Personal Leadership Reflection) due
Week 15	Review and Final	

ID-BUS 121: Design Thinking Process

Instructor

TBA

Phone

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Email

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Office Location

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Office Hours

By appointment

Course Overview

Through the analysis of certain situations, learn the entire process on seeking creative solutions along with the experience of defining and alleviating the problems. This course will explore the process and procedure of planning and management of various design projects. First, students will be introduced to basic principles of design process and project management. Then, the students will explore the role of project managers. They will discover structures and process of design related projects and the necessary techniques required for managing them. Also, some topics in 'what is a designer' by Norman Potter will be covered in relation to how to cooperate with designers for a project. Also, in a form of small group, a design project will be carried in order to gain more direct and hands-on understanding of the given topic and concepts. Each class will have a combination of lecture and topic presentations by students. Active participation and autonomous project carry is highly required.

Course Objectives

We want to examine Design Thinking concepts and principles and to practice the methods, processes, and tools of Design Thinking. Also, we analyze the role of primary and secondary research in the discovery stage of Design Thinking. It includes applying the Design Thinking approach and model to real world situations. Using the design thinking process, innovative ideas can be developed and tested through a fast repetitive cycle. Students develop a strong understanding of the Design Process and how it can be applied in a variety of business settings.

Required Texts

TBA

Course Materials

TBA

Expectations

Students who have completed this course will be able to utilize the creative and critical thinking required in the process of creating a new product for a company, designing a new process, or creating a new company, from the beginning of the entire process to the final development completion. Also with this background, they will learn how to increase the likelihood of success and maximize the effectiveness and efficiency of the entire process while reducing trial and error, including cost reduction and time reduction.

Evaluation

Attendance	20%
Participation & Homework	20%
Quizzes/Midterm	20%
Final	40%

Participation and Homework

In-class Participation	10%
Reading Discussion Board	10%

Midterm Exam

More detailed guidance and instructions will be provided in the LMS and Google Drive.

Final Exam

More detailed guidance and instructions will be provided in the LMS and Google Drive.

Exam Schedule

Week	Assessment	Date
Week 8	Midterm	TBA
Week 15	Final Exam	TBA

Attendance

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Classroom Ethics

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Course Calendar

Week	Subject	Reading/ Assignments
Week 1	Course orientation - introduction of instructor and students - logistics and project outline - evaluation and Q&A	TBA
Week 2	Topic lecture - What is a design project? - Who are involved?	TBA
Week 3	Topic lecture - Design project process - Case study: Design Project Proposal	TBA
Week 4	Design Process 1 - What is a designer?	TBA
Week 5	Design Process 2 - Inclusive design	TBA
Week 6	Case Study - Public signage design Case Study - Graphic design	TBA
Week 7	Special Topic - Guest designer lecture	TBA
Week 8	Mid-term	TBA
Week 9	Project Brief - Visual communication for space	TBA
Week 10	Project - Space observation - Findings and insights	TBA
Week 11	Project Group Discussions - Generating ideas	TBA

Week	Subject	Reading/ Assignments
	- peer Reviews	
Week 12	Project - Interim review - Simulations and feedbacks	TBA
Week 13	In-class practice final project tutorial	TBA
Week 14	Group Presentations	Team presentation of final project. - Project overview - Critical Moment - Plan and outcome - Review and future improvements
Week 15	Review and Final Exam.	TBA

ID-IT204: Data Visualization

Instructor
TBA

Phone
TBA

Email
TBA

Office Location
TBA

Office Hours
TBA

Course Overview

This course is designed to introduce data visualization techniques through hands-on exercises. In the data driven society, information extraction using an appropriate data visualization technique is playing a vital role in an organization. This course introduces the students about the different visualization techniques such as charts, interactive dashboard, story for creating meaningful displays of quantitative and qualitative data to facilitate managerial decision-making. To serve that purpose, this course offers students with a formal foundation in data visualization in addition to hands-on experiences using Excel spreadsheets, Tableau software package, and Python programming.

Course Objectives

Upon completion of this course, students will be able to:

Interpret the history of the data visualization.

Describe the key design principles and techniques for visualizing data.

Develop an understanding of the fundamentals of communication and alignment around concepts that are required for effective data presentation.

Overview and develop an introductory level of competency on the use of available software tools that can be used for data visualization, and

Allow for project-based opportunities to identify, understand, analyze, prepare, and present effective visualizations on a variety of topics.

Required Texts
TBA

Course Materials:
TBA

Expectations
TBA

Evaluation

Component	Weighting *
1. Attendance	20%
2. Assignment(s) before midterm - Before midterm exam, 1/2 individual home assign ment(s) will be given related to lecture topics	10%
3. Midterm Exam - syllabus will be topics covered till 7th week - Questions types: MCQ types/Short Questions/ Proble m Solving	20%
4. Assignment(s) after midterm - After midterm exam, 1/2 individual home assignment(s) will be given related to lecture topics	10%
5. Final Exam - syllabus will be topics covered from 9th to 14th week - Questions types: MCQ types/Short Questions/ Proble m Solving	40%
Total	**100%**

Midterm Exam

More detailed guidance and instructions will be provided in the LMS and Google Drive.

Final Exam

More detailed guidance and instructions will be provided in the LMS and Google Drive.

Exam Schedule

Week	Assessment	Date
Week 8	Midterm	TBA
Week 15	Final Exam	TBA

Attendance

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Course Calendar

Session	Date	Module / Instructor	Discussion Topic	Pre-Class Activities
1	Week1	**Introduction to Data and Data Visualization**	**What is data? Data types (quantitative data: discrete and continuous, qualitative data: categorical and ordinal data)**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
2	Week2	**Introduction to Microsoft Excel as a Data Visualization Tool: charts/graphs(I)**	**Excel for playing data, sorting, filtering data, XY scatter graphs, Column and Bar charts, Pie charts, Gantt Chart, Context-sensitive legends and titles, Histogram**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
3	Week3	**Introduction to charts/graphs (II)**	**Tree map Chart, Waterfall Chart, Funnel chart, Pivot Chart**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
4	Week4	**Introduction to Tableau Desktop for Data Visualization**	**Importing data from outside worlds (Live/Extract), Tableau Data types, Join, Union, and relationship**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
5	Week5	**Tableau Sheet, Dashboard, and Story**	**Interactive Dashboard and Story design using different tableau sheets and published the interactive boards in Tableau public**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
6	Week6	**Tableau Group, Set, and Cluster**	**Group, Dynamic Set, Static Set, Cluster**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)

Session	Date	Module / Instructor	Discussion Topic	Pre-Class Activities
7	Week7	**Publishing data in Tableau online**	**Creating an account in Tableau Online, preparing data in Tableau Desktop for publishing, Publish data in Tableau Online**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
8	Week8	**Midterm Exam**	**Midterm Exam (Online)** **All the instructions will be uploaded before the Midterm week**	No Lecture in midterm exam week
9	Week9	**Use of Tableau Desktop for data preparation**	**Keep, Exclude, Filter, Aggregate Measure in Tableau**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
10	Week10	**Introduction to Set, Parameters, New Calculated Fields**	**Set, Parameters, New Calculated Fields**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
11	Week11	**Introduction to time series data using Tableau: Trends, Clustering, Forecasting**	**Trends, Clustering, Forecasting**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)r)
12	Week12	**Introduction to Python for playing with data: NumPy, SciPy**	**Introduction to Python programming: variables, data types, operations, array**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
13	Week13	**Python for data Visualization(I): line graph, bar graph, pie chart, scatterplot using Matplotlib libraries**	**line graph, bar graph, pie chart, scatterplot using Matplotlib libraries**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
14	Week14	**Python for data Visualization (II): Histogram, Box - Whisker Plot**	**Subplot, Histogram, Box - Whisker Plot**	It is expected that students should study the related materials (slides, text book, recorded lecture) which will be uploaded at LMS (www.nsmart.wsu.ac.kr)
15	Week15	**Final Exam**	**Final Exam (Online)** **All the instructions will be uploaded before the final week**	No Lecture in Final exam week

ID-IT 205: Python I

Course Overview

Instructor

TBA

Phone

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Email

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Office Location

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Office Hours

By appointment

Learn about the basic structure and coding methods of Python. Also, students will learn about calculating basic statistics and merging data using Python. It explains and let students practice Python coding methods using examples. In addition, it allows students to practice and learn sufficiently through assignments and tests.

By following this process, students will understand the core of the coding language called Python and will be able to use it usefully in solving various problems they will encounter in the future.

Course Objectives

Through this course, students will learn Python which is currently in the spotlight as a basic SW course. They also learn the basic theories and perspectives of coding job. With the experience and knowledge gained from this class, students will have confidence in many tasks related to coding in the future, and the purpose is that this confidence will be of great help when performing various tasks using computers.

Required Texts

E. Matthews (2019), *Python Crash Course*, *A Hands-On, Project-Based Introduction to Programming* (2nd ed.), No Starch Press.

Course Materials

TBA

Expectations

Students will acquire basic knowledge related to SW language Python.

Students will use Python for simple development.

Students will develop simple functions as required by the Python language.

Students will understand logical thinking required for programming.

Students can implement simple Python functions on his/her own at work.

Evaluation

Attendance _____20%
Participation & Homework _____20%
Quizzes/Midterm _____20%
Final _____40%

Participation and Homework

In-class Participation _____10%
Reading Discussion Board _____10%

Midterm Exam

More detailed guidance and instructions will be provided in the LMS and Google Drive.

Final Exam

More detailed guidance and instructions will be provided in the LMS and Google Drive.

Exam Schedule

Week	Assessment	Date
Week 8	Midterm	TBA
Week 15	Final Exam	TBA

Attendance

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Course Calendar

The readings for this course supplement the weekly lectures. Students should be prepared to engage the reading enough to have an undergraduate-level discussion of the topics.

Week	Subject	Reading/ Assignments
Week 1	Course introduction and introduction to open source and Python	chap. 1-2
Week 2	Open Source SW License and Variables and Data Types	chap. 3
Week 3	Introduction to Git and Conditional Statements	chap. 4
Week 4	GI environment construction: loop statements	chap. 5
Week 5	GI version control: function	chap. 6
Week 6	Multiple Git Collaboration: Theory	chap. 7-8
Week 7	Multiple Git Collaboration: dictionary	chap. 7-8
Week 8	Midterm Exam	
Week 9	Multiple Git Collaboration: class & object 1	chap. 10
Week 10	Multiple Git Collaboration: class & object 2	chap. 10
Week 11	Collaborate with two or more remote repositories: module	chap. 11
Week 12	Collaborate with two or more remote repositories: built-in function	chap. 12
Week 13	Handling git with practical examples	

Week	Subject	Reading/ Assignments
Week 14	Handling git with practical examples: files and exception handling	
Week 15	Final Exam	