

DIG6972C Capstone Project

Instructor

Seunghyuk Jang

Phone

(352) 294-2000

Email

Canvas Mail

Office Location

CSE 424

Office Hours

Thursday 10 – 11 AM

Course Number

DIG6972C

Semester/Year

Spring 2021

Course Credits

2 credits

Course Location

Reality Lab (CSE)

Course Meeting Times

Tuesday
10:40AM – 11:30AM

Thursday
10:40AM – 12:35PM

Course Description

DIG6972C offers to help students engage in the entire process of solving a real-world data science project within the field of Digital Arts & Sciences, from collecting and processing actual data to applying suitable and appropriate analytic methods to the problem. At the end of the semester, students are expected to have their final project + fully developed personal portfolio package including all of the work that they produced throughout the semester.

Pre-Requisite Knowledge and Skills

None

Objectives: By the end of this course, students will be able to:

- Demonstrate an ability to handle a problem in data science from the point of problem definition through delivery of a solution.
- Learn how to work in small teams with at least one other student on their project.
- Analyze original research data and present the data in a form appropriate for the design.
- Compose a formal report of their research to include the Introduction section, purpose of the study, literature review, the methodology, findings and interpretations, conclusions, and implications.

Required Materials

- Windows 10/Mac (Mojave or above) with 8 GB or higher Memory
- Non- Integrated GPU
- Drawing Tablet (Small, **Medium-Recommended** or Large)
- Autodesk Maya 2019
- Substance Painter
- Unity 3D
- Adobe Photoshop CC

Recommended Materials

- 16GB RAM
- Nvidia Geforce GTX 9xx or above, Radeon RX 5XX or above graphic card
- Wacom Intuos series tablet

Course Schedule

This schedule is only a guide and is subject to change. Unless otherwise indicated, assignments and readings are due the day they are listed on the syllabus, not the following day.

Week	Subject	Assignment/Quizzes	Assignments Due
Week 1	Class Begin Jan 11th Overview of course and objectives Discuss/Review Capstone Idea	In-Class Discussion Assignment#1: Capstone Proposal	
Week 2	Analyzing References Project Management	Create a Trello page	Assignment#1 - Capstone Proposal
Week 3	Analyzing Prototype	Update Trello page	
Week 4	Presentation of Alpha – Final Assets	Assignment #2: Update Trello Feedback #1	
Week 5	In-Class Workshop/Discussion		Assignment #2- Update Trello Feedback #1
Week 6	In-Class Workshop/Discussion	Assignment #3: Update Project to Beta	
Week 7	Presentation of Beta – Final Assets/Function		Assignment #3: Update Project to Beta
Week 8	In-Class Workshop/Discussion	Assignment #4: Progress Update to Final	
Week 9	Prepare for the First Final Submission		Assignment #4: Progress Update to Final
Week 10	University Deadline (Mar 15th) Digital Salon	Assignment #5: Final Submission #1	
Week 11	Presentation of Gold/Critiques		Assignment #5: Final Submission #
Week 12	Final Presentation to Grad Faculty (Group Presentation)	Assignment #6: Update Trello	
Week 13	Prepare for the Final Submission University Deadline (April 1st)		Assignment #6: Update Trello
Week 14	Portfolio Part I	Assignment #7: Demo Real Draft	
Week 15	Portfolio Part II		Assignment #7: Demo Real Draft

Week	Subject	Assignment/Quizzes	Assignments Due
Week 16	Final Paper Due	Final Analysis Paper	

Evaluation of Grades

Assignment	Total Points	% of Grade
Participation – Students are expected to actively participate in class discussions, both in class as well as in class online forums outside class meetings.	100	10%
Weekly Assignments – Weekly assignments are due the first session of each week unless otherwise noted. The work will be uploaded to CANVAS prior to the beginning of class otherwise the work will be considered late.	350	35%
Presentation - In-class Presentation (Alpha + Beta + Final)	150	15%
Final Project – Final Project is the final result of the semester long effort in learning. It is expected that in this	400	40%

Grading Scale

Letter Grade	% Equivalency	GPA Equivalency
A	94 – 100%	4.0
A-	90 – 93%	3.67
B+	87 – 89%	3.33
B	84 – 86%	3.00
B-	80 – 83%	2.67
C+	77 – 79%	2.33
C	74 – 76%	2.00
C-	70 – 73%	1.67
D+	67 – 69%	1.33
D	64 – 66%	1.00
D-	60 – 63%	.67
E, I, NG, S-U, WF		0.00

More information on grades and grading policies is here:

<https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

Materials and Supply Fees

Material and supply and equipment use fee information is available from the academic departments or from the schedule of courses (Florida Statutes 1009.24). The total course fee for this class is \$0.00.

The total course fee for each course is listed on the UF Schedule of Courses. (<https://registrar.ufl.edu/soc/>).

Course Polices

Attendance Policy, Class Expectations, and Make-Up Policy

We value participation more than mere attendance. The instructor is responsible for communicating the specific details of what percentage of your grade (if any) will be assigned to participation, and how class participation will be measured and graded. Interaction with your peers and the instructor will empower you to greater achievement.

Missing assignments will be marked as “0” unless addressed by instructor with extended due. Students must provide documents for any medical excuses.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

Course Technology

The students will be required to have access to and use a personal computer with the access to the Internet. Word editing software will be required for written assignments.

The University of Florida and Digital Worlds requires that students have access to and on-going use of a laptop/mobile computer for DIG courses in order to be able to function in the current learning environment. Digital Worlds requires each student’s laptop computer to meet certain minimum specs for heavy graphics use, the requirements documented below must be met.

DW Computer Requirements: <http://digitalworlds.ufl.edu/programs/ba-in-digital-arts-sciences/new-student-buyers-guide/>

Course Communications

Students can communicate directly with the instructor regarding the course material through the course management system (CANVAS) using “Canvas Mail”.

Course Technology Support

The [Technology Support Center](http://digitalworlds.ufl.edu/support) provides computer support for Digital Worlds students who access Zoom, lecture recordings, student equipment, facilities and other technology-based resources.

<http://digitalworlds.ufl.edu/support>

For computer assistance related to Zoon, lecture recordings, student equipment, and facilities request please [Submit a Help Ticket](#) or email support@digitalworlds.ufl.edu.

For support related to account services, technical consulting, mobile device services, software services, administrative support, application support center, and learning support services, please contact the [UF Computing Help Desk](#) available 24 hours a day, 7 days a week at 352-392-4357 or helpdesk@ufl.edu.

UF Policies

University Honesty Policy

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Class Demeanor

Students are expected to arrive to class on time and behave in a manner that is respectful to the instructor and to fellow students. Please avoid the use of cell phones and restrict eating to outside of the classroom. Opinions held by other students should be respected in discussion, and conversations that do not contribute to the discussion should be held at minimum, if at all.

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Netiquette Communication Courtesy

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats, more information can be found at: <http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf>

Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: <http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html>

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu/evals>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

Campus Resources

U Matter, We Care:

If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc>, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or <http://www.police.ufl.edu/>.

E-learning Technical Support

352-392-4357 (select option 2) or e-mail to Learning- learning-support@ufl.edu

Career Connections Center

Reitz Union, 392-1601. Career assistance and counseling. <https://career.ufl.edu>

Library Support

Various ways to receive assistance with respect to using the libraries or finding resources.
<http://cms.uflib.ufl.edu/ask>

Teaching Center

Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. <http://teachingcenter.ufl.edu/>

Writing Studio

2215 Turlington Hall, 846-1138. Help brainstorming, formatting, and writing papers.
<http://writing.ufl.edu/writing-studio/>

Student Complaints Campus

<http://regulations.ufl.edu/wp-content/uploads/2012/09/1.0063.pdf>

Online Students Complaints

<http://www.distance.ufl.edu/student-complaint-process>

Disclaimer: This syllabus represents the instructor's current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.