ÖZYEĞİN UNIVERSITY

Course Syllabus
IR421 Computational Social Science
Spring 2021-22

INSTRUCTOR	
Name	*Akın Ünver*
E-mail	*Akin.unver@ozyegin.edu.tr*
Office Number	*FEAS AB 249A*
Office Hours	*Zoom meetings by appointment or Tuesdays and Wednesdays 1830 - 1900*

HEALTH SAFETY RULE	
Mask Requirement	For the safety of themselves, their fellow students, their instructors, and all others, students must always wear masks in classrooms and all other closed spaces and strictly adhere to the health safety measures and rules established by the University for the classrooms and the campus in general. Student behaviors that go against the health safety measures and rules will result in a disciplinary action. Those who have a health condition that makes it difficult or prevent them from putting on a mask, may follow the courses online (except the limited number of courses that are given face-to-face only).

COURSE TYPE	COURSE DELIVERY AND EXAM ADMINISTRATION
Face-to-Face Synchronous (Face-to-Face and Online)	● This course is offered in-person, on campus but can also be followed online. ● This course is synchronously video streamed, but it is not recorded. ● In-person class attendance may be required throughout the semester; the instructor may ask students to enable their video and/or audio to take attendance at certain times. ● Final and midterm exams are administered in-person, on campus only; additionally, there may be online assessments (i.e., online quizzes).

COURSE ORGANIZATION	
Interaction Methods	*In-class discussion, groupwork for weekly class exercises.*
Technology Used by the Instructor	*Zoom, R, Python, Excel*
Technology Requirements for Students	*For students unable to attend laboratory sessions, a laptop/computer that can run Excel, Python and R, with a microphone and camera is required* *All students are required to have a Twitter, Facebook and Instagram account (personal or alias acceptable)*

COURSE MATERIALS	
Required Books	-
Recommended Books	*Handbook of Computational Social Science - Vol 1 & Vol 2 Edited By Uwe Engel, Anabel Quan-Haase, Sunny Xun Liu, Lars Lyberg* Doing Computational Social Science A Practical Introduction John McLevey
Other Materials	*Introduction to R: https://r4ds.had.co.nz/introduction.html*

	Introduction to Python: *https://www.w3schools.com/python/python_intro.asp*
Accessing Course Materials	*The readings will be put on LMS.*

WEEKLY SUBJECTS (TENTATIVE)		
Week	**Date**	**Subject**
1	16.02.2022	Welcome and course orientation
2	23.02.2022	Digital Trace Data
3	02.03.2022	Data Structures and Application Programming Interfaces
4	09.03.2022	Collecting Data from the Web: Scraping and APIs
5	16.03.2022	Data Wrangling and Cleaning
6	23.03.2022	*Project 1 – Data Collection and Data Management Exercise*
7	30.03.2022	Text and Sentiment Analysis
8	06.04.2022	Network Analysis
9	13.04.2022	Mapping and Geospatial Analysis
10	20.04.2022	Screen Scraping
11	27.04.2022	Project 2 – Mixed-methods Computational Analysis Exercise
12	04.05.2022	Ramadan Feast Holiday Week
13	11.05.2022	Real-Life Analytics 1 - Disaster and Emergency Data Analysis
14	18.05.2022 ***(Withdrawal Week)***	Real-Life Analytics 2 – Twitter Mapping and Spatio-temporal Dynamics of Social Media Trends
15	26.05.2022	Real-Life Analytics 3 – Digital Ethnography of Biker Gangs

ASSESSMENT METHODS, WEIGHTS AND RULES			
Type	**Weight**	**Implementation Rule**	**Makeup Rule**
Final Project	*50%*	*Project will be open book, open source, and will be computer-based. It will require a number of sequential measurement, analysis and reporting tasks (will be held online, depending on the course of the pandemic)*	Officially-documented health reasons
Small Projects (2)	*25% each*	*Small Projects will test students' ability to perform a range of computational tasks on programming interfaces on topics of their own choosing.*	Officially-documented health reasons
Total	**100%**		

ONLINE EXAM (FINAL EXAM, MIDTERM EXAM OR QUIZ) ADMINISTRATION	
Online without Proctoring	• Students must comply with the announced duration of the exam. Beginning the exam early or finishing the exam late may result in the cancellation of the student's exam.

ASSESSMENT(S) BEFORE THE WITHDRAWAL DEADLINE		
Type of Assessment(s)	**Weight(s)**	**Date by When the Score of the Assessment is to be Announced**
Two small projects	25% each	28.04.2022

DETERMINING LETTER GRADE
• *A minimum required reasonable total score from the projects and final exam final exam,* • *Letter grade will be determined with a curve system* • *The student will have two projects (50% total) as assessment before the withdrawal deadline*

EXPECTED STUDENT SEMESTER WORKLOAD	
Activities Carried Out in The Presence of An Instructor	**Total Hours in Semester**
Lecture (Including Discussion Sessions)	14
Recitation/Practice	42
Laboratory/Studio/Kitchen/Flight	28
Field Work	
Activities Carried Out by The Learner Him/Herself	**Total Hours in Semester**
Working on Assignments	28
Pre-class Learning of Course Material	14
Review of Course Material for Exam Preparation	21
Other	
Overall Total Hours in Semester	*151*

OTHER RULES AND INFORMATION	
Health and Safety	Announced safety procedures must be strictly followed during any laboratory and similar work. Please refer to the safety guidelines posted in the laboratories. In case of emergencies, call 9911 (216 564 9911).
Accessibility	Reasonable accommodations will be provided for students with verifiable disabilities. Please inform your instructor if you need any assistance.
Academic and Technical Support	Students can get help from the Writing Center, Solution Center and IT in case they need academic and/or technical support with their classes.
Objections to Examination Results	Students who object to their exam results and cannot resolve their objections with the instructor of the course, may file a written petition for a review of their exam papers at their Dean's/Director's Office within five business days from the announcement their exam results.
Academic Integrity and Honor Code	Students are assumed to abide by scholastic honesty and uphold the Honor Code. Scholastic dishonesty includes, but is not limited to cheating, attempting to cheat, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting the work of another person, or tampering with the academic work of other students. Any form of scholastic dishonesty is a serious academic violation and will result in a disciplinary action and also may result in student getting a 0 grade in the related assessment.
Unauthorized Recording/Sharing of Lectures	Recording/sharing of synchronous/asynchronous lectures or copying of lecture recordings are prohibited without the permission of the instructor. Actions such as unauthorized recording, giving the recording to someone else, taking it, using it or sharing it in physical or virtual media are prohibited and/or are offenses according to the relevant legislation. In such cases, legal procedures will be initiated in addition to starting disciplinary actions against those involved.
Flexibility	Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change. Students will be notified prior to any changes.