Genetics 564			SPRING 2024
Date	Location	Notes	Topics Covered
January 23rd, 2024	Animal Sciences 150		Intro to Course & Semester Long Project Overview LAB1: Website Creation, Biorender, & Entrez
January 25th, 2024	Genetics 1408		"Slide evolution" talk by Ahna
January 30th, 2024	Animal Sciences 150		LAB2: Entrez, Homologene, Biorender + Work on Website & Presentation
February 1st, 2024	Genetics 1408		Next generation Sequencing
February 6th, 2024	Animal Sciences 150		LAB3: Homologene/ENSEMBLE & Specific Aims Day 1
February 8th, 2024	Genetics 1408		Phylogenomics
February 13th, 2024	Animal Sciences 150	Specific Aims Homework #1 (20pts) due	LAB4: ClustalW, TreeBuilding, MEGA Specific Aims Day 2 (20pts)
February 15th, 2024	Genetics 1408		Domain, Motif and Gene Ontology Analysis
February 20th, 2024	Animal Sciences 150	WebPage #1 due: Homepage w/Intro (20pts)	LAB5: GO, PFAM, SMART & Protein Domain Slide
February 22nd, 2024	Genetics 1408		Genome-wide CRISPR screens
February 27th, 2024	Animal Sciences 150		LAB6: Model Organism Databases & Work on Presentation (Q1)
February 29th, 2024	Genetics 1408	Rough draft #1 of presentation due (20pts), Visualize your AIMS	Single Cell Transcriptomics
March 5th, 2024	Animal Sciences 150		LAB7: Gene Expression Omnibus (GEO) & Specific Aims Group Work
March 7th 2024	Genetics 1408		Chemical genomics
March 12th 2024	Animal Sciences 150	Specific Aims Draft #1: Background/Gap + Aim 1-2 Due (100pts)	LAB8: PubChem & & Specific Aims Day 3 (40pts)
March 14th, 2024	Genetics 1408	Adam Steinberg will talk	SPECIAL LAB in 1408: Bring aims and draft of presentation to class today on laptops, sit next to peer
March 19th, 2024	Animal Sciences 150		LAB9: Creating Interaction Networks I & Presentation Group work
March 21st, 2024	Genetics 1408	Rough draft #2 of presentation due (20pts), Visualize your Aims	Proteomics 1: Biological Networks
March 26th, 2024		SPRING BREAK	
March 28th, 2024		SPRING BREAK	
April 2nd, 2024	Animal Sciences 150	Adam Steinberg will present	LAB10: Guest Speaker: Adam Steinberg: ArtForScience, bring your Rough Draft of Talk to class
April 4th, 2024	Genetics 1408		Proteomics 2: SILAC
April 9th, 2024	Animal Sciences 150	Webpage #2 due: Homepage-Interaction networks (20pts)	LAB 11: Aims work in groups (Specific Aims Day 3, 20pts) & Website work and feedback
April 11th, 2024	Genetics 1408		Proteomics 3: Quantitative proteomics & iTRAQ
April 16th, 2024	Animal Sciences 150	Specific Aims Draft #2: Aims 1-3 (20pts)	CLASS FUN (Peer review will be assigned for Aims)
April 18th, 2024	Genetics 1408	Adam Steinberg will present	SPECIAL LAB: Final Presentation group work with Adam Steinberg in your peer groups
April 23rd, 2024	Animal Sciences 150		Final Presentations: 6 talks
April 25th, 2024	Genetics 1408		Final Presentations: 4 talks
April 30th, 2024	Animal Sciences 150		Final Presentations: 6 talks
May 2nd, 2024	Genetics 1408		Final Presentations: 4 talks
May 10th, 2024	FINAL EXAM	Final Project Due on Website (100 Total pts), Final talk PDF on website (20pts) & Specific Aims Final Draft (B/G + All 3 aims) (100pts)	Final web project due, Written version of final talk becomes the conclusion page on website & Final draft of Specific Aims pasted and uploaded to website (11:59pm deadline)

Gen 564 Grade Breakdown 2024

Specific Aims: (total points: 280pts)

- Specific Aims Day 2: Students divide into groups & Class discussion (20pts)
- Specific Aims Homework #1: Peer review previous Gen564 students' specific aims (20pts)
- Specific Aims Draft #1 Students submit Background/GAP + Aim1-2 (Website upload + Canvas) (100pts)
- Specific Aims Day 3: Peer review class discussion time (20pts)
- Specific Aims Draft #2: Peer review only (20pts)
- Specific Aims Final Draft: Students hand in final draft (with 3 Aims) to be graded using FINAL Rubric (100pts)

Final presentations: (total points: 160pts)

- Rough draft #1: PPT/KEY/PDF format uploaded to your website (20pts)
- Rough draft #2: PPT/KEY/PDF format uploaded to your website (20pts)
- Final talk: PDF format uploaded to your website (20pts)
- Final Presentation: presentation graded (100pts)

First Group Presentation (Tuesday): (100pts)

Participation: (100pts total)

Blog questions (50pts) + Class Participation (50pts)

Final Website: (140pts total)

Website Intro deadline (20pts) + Website #2 (20pts) + FINAL Website (100pts)

Extra Credit (60pts)

TOTAL: 840pts

*Any late submissions incur a 5pt late fee/day