

All topics and dates are tentative and subject to change.
 Any substantive changes (such as due dates) will be announced on Piazza.

Week	Date	Topic	Assignments Released: 1 wk before Due: 11:59pm ET	Project checkpoints Due: 11:59pm ET
1	Mon, Aug 25	Syllabus and Introduction to AI		
1	Wed, Aug 27	Principal components analysis (PCA)		
1	Fri, Aug 29	Principal components analysis (PCA)	Optional Assignment 0 due	
2	Mon, Sep 01	<i>Labor Day</i>		
2	Wed, Sep 03	Principal components analysis (PCA)		
2	Fri, Sep 05	Machine learning	Assignment 1 due	
3	Mon, Sep 08	Machine learning		
3	Wed, Sep 10	Machine learning		
3	Fri, Sep 12	Machine learning	Assignment 2 due	
4	Mon, Sep 15	Machine learning		
4	Wed, Sep 17	Machine learning		
4	Fri, Sep 19	Deep learning basics	Assignment 3 due	
5	Mon, Sep 22	Deep learning basics		
5	Wed, Sep 24	Deep learning basics		
5	Fri, Sep 26	Deep learning basics		
6	Mon, Sep 29	Deep learning basics		
6	Tue, Sep 30	Midterm 1 (8-9:30pm, WTHR 200)		
6	Wed, Oct 01	Natural Language Processing (NLP)		
6	Fri, Oct 03	Natural Language Processing (NLP)		Checkpoint 1
7	Mon, Oct 06	Natural Language Processing (NLP)		
7	Wed, Oct 08	Natural Language Processing (NLP)		
7	Fri, Oct 10	<i>No lecture (omitted due to evening exam)</i>	Assignment 4 due	
8	Mon, Oct 13	<i>October break</i>		
8	Wed, Oct 15	Review of probability		
8	Fri, Oct 17	Review of probability	Assignment 5 due	
9	Mon, Oct 20	Density estimation		
9	Wed, Oct 22	Density estimation		
9	Fri, Oct 24	Autoencoders		Checkpoint 2
10	Mon, Oct 27	Autoencoders		
10	Wed, Oct 29	Diffusion Models		
10	Thu, Oct 30	Midterm 2 (8-9:30pm, PHYS 114/BHEE 170)		
10	Fri, Oct 31	<i>No lecture (omitted due to evening exam)</i>		
11	Mon, Nov 03	Diffusion Models		
11	Wed, Nov 05	Markov Decision Processes (MDP)		
11	Fri, Nov 07	Markov Decision Processes (MDP)	(Work on project)	(Work on project)
12	Mon, Nov 10	Markov Decision Processes (MDP)		
12	Wed, Nov 12	<i>Guest speaker: Darius Elliot</i>		
12	Fri, Nov 14	<i>No lecture (omitted due to evening exam)</i>	Assignment 6 due	
13	Mon, Nov 17	Markov Decision Processes (MDP)		
13	Wed, Nov 19	Reinforcement Learning		
13	Fri, Nov 21	Reinforcement Learning		Project paper due
14	Mon, Nov 24	Reinforcement Learning		Code, video, and poster due
14	Wed, Nov 26	<i>Thanksgiving break</i>		
14	Fri, Nov 28	<i>Thanksgiving break</i>		
15	Mon, Dec 01	Presentations		
15	Wed, Dec 03	Presentations		
15	Fri, Dec 05	Presentations	Assignment 7 due	
16	Mon, Dec 08	Special topics		
16	Wed, Dec 10	Special topics		
16	Fri, Dec 12	Special topics		
17	Tue, Dec 16	Final Exam (10:30am - 12:30pm, LILY 1105)		