CDS 292: Network Analysis

Syllabus Part 3

Spring, 2022

This syllabus is split into three parts:

1. Part 1: General Course description
2. Part 2: Instructors
3. Part 3: Calendar

Definition of a week: This semester, each week is defined from the beginning of Saturday (12:00 AM) to the end of the following Friday (11:59 PM)

Snow Day Policy

If Mason is closed due to inclement weather on a class meeting day (only section 1), the class is **canceled**. Section DL will have no changes due to inclement weather.

Calendar

Calendar week	Lesson	Due dates
Jan 22 - Jan 28	Lesson 0: Navigating CDS 292; Lesson 1: Tools	• FERPA form related to Colaboratory use: Wednesday Jan 26th • Signed Statement that Lesson 0 has been read and understood: Wednesday Jan 26th • Colaboratory notebook: Friday Jan 28th • Problem Set: Friday Jan 28th

Jan 29 - Feb 4	Lesson 2: Building blocks of networks	• Colaboratory notebook: Wednesday Feb 2nd, by the end of the day (11:59 pm) • Problem Set: Friday Feb 4th
Feb 5 - Feb 11	Lesson 3 (part 1): Node Degrees, Link Indicators, Network Formulas, and Adjacency Matrices	• Colaboratory notebook: Wednesday Feb 9th • Problem Set: Friday Feb 11th
Feb 12 - Feb 18	Lesson 3 (part 2): Node Degrees, Link Indicators, Network Formulas, and Adjacency Matrices	• Colaboratory notebook: Wednesday Feb 16th • Problem Set: Friday Feb 18th
Feb 19 - Feb 25	Lesson 3 (part 3): Node Degrees, Link Indicators, Network Formulas, and Adjacency Matrices	• Colaboratory notebook: Wednesday Feb 23rd • Problem Set: Friday Feb 25th
Feb 26 - Mar 4	Lesson 4 (part 1): Histograms of Node Degrees	• Colaboratory notebook: Wednesday Mar 2nd • Problem Set: Friday Mar 4th
Mar 5 - Mar 11	Lesson 4 (part 2): Histograms of Node Degrees	• Colaboratory notebook: Wednesday Mar 9th • Problem Set: Friday Mar 11th
Mar 19 - Mar 25 Mar 26 - Apr 1	Review and Midterm Lesson 5 (part 1): Paths in networks	Midterm Available Mar 23rd • Colaboratory notebook: Wednesday Mar 30th • Problem Set: Friday Apr 1st

Apr 2 - Apr 8	Lesson 5 (part 2): Paths in networks	• Colaboratory notebook: Wednesday Apr 6th • Problem Set: Friday Apr 8th
Apr 9 - Apr 15	Lesson 6: Shortest paths in networks	• Colaboratory notebook: Wednesday Apr 13th • Problem Set: Friday Apr 15th
Apr 16 - Apr 22	Lesson 7 (part 1): Triangles, v-shapes and clustering	• Colaboratory notebook: Wednesday Apr 20th • Problem Set: Friday Apr 22nd
Apr 23 - Apr 29	Lesson 7 (part 2): Triangles, v-shapes and clustering	• Colaboratory notebook: Wednesday Apr 27th • Problem Set: Friday Apr 29th
Apr 30 - May 6	Lesson 7 (part 3): Triangles, v-shapes and clustering	• Colaboratory notebook: Wednesday May 4th • Problem Set: Friday May 6th
May 9th - May 11th	Review Sessions	
May 12th	Final Exam	