**Welcome to April, 2021 IST 707 Data Analytics at SU!**

Hi Class,

My name Dr. Gregory Block, I will be your instructor this semester. I am an adjunct faculty member at the iSchool. Here is a link to my profile:

https://ischool.syr.edu/gregory-block/

**First day of Asynchronous Coursework**: Monday, April 12th – Note, this is a flipped class. This means that you will prepare yourself prior to each class by taking advantage of the asynchronous material. Please complete Week 1 Coursework and HW before our first live session.

**First Live Session**: Monday, April 12th, 7:00PM-8:30 PM EDT

**Class Outline and Due Dates**

1) HW is always due by 1:00 PM on the **Monday**of our **l**ive session for that week.

See our course schedule below. Note that we ***will deviate from the schedule noted in the syllabus slightly***to better organize your time and provide you with extra time to work on your projects.

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| Week | Topic | Textbook Readings | Submission items |
| 1 | Introduction to Data Mining | Ch.1 | HW1 |
| 2 | Data Exploration | Ch. 2-3 | HW2 |
| 3 | Association Rules | Ch. 6.1-6.3 | HW3 |
| 4 | Clustering | Ch. 8.1-8.3 | HW4 |
| 5 | Classification  algorithm: decision tree | Ch. 4.1-4.3 | HW5 |
| 6 | Model Evaluation | Ch. 4.4-4.6 | Practice Presentations |
| 7 | Classification algorithm: naïve  Bayes | Ch. 5.3 | ~~NO HW6 SUBMISSION~~ |
| 8 | Classification algorithm: kNN, SVMs, random  forest | Ch. 5.2, 5.5 | HW6 + HW7 as ONE SUBMISSION (ONE REPORT) |
| 9 | Text mining |  | ~~NO HW8 (CANCELLED!)~~ |
| 10 | Project presentations or advanced topics (such as neural networks) |  | Final Presentations |
|  | Project presentations or advanced topics (such as neural networks) |  | Final project report (checkpoint 3) |

**Class Book: Introduction to Data Mining: Tan, Steinbach, and Kumar (2005)**

Note: There are two editions of this book. This class uses the older edition, so please get that one (copyright 2005). I have both editions because this is a great book – very clear – excellent examples – and very applicable to Data Mining, Data Science, and Data Analytics.

[**LINK: All Class Readings by Week**](https://docs.google.com/document/d/19Bc4gozlOY6dDrsiTwOvwnHw9vllZTYmuMXWbebuODs/edit?usp=sharing)

Direct URL:<https://docs.google.com/document/d/19Bc4gozlOY6dDrsiTwOvwnHw9vllZTYmuMXWbebuODs/edit?usp=sharing>

**Copy of Chapter 1**

<https://drive.google.com/file/d/1p15fuBs2eJgcvLoA4d53cw5pFn2su9tn/view?usp=sharing>

Be sure to order your book in advance so that it arrives prior to the start of class.