Boston University Metropolitan College

Web Mining and Graph Analytics

MET CS 688 C1

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Office hours: by appointment

Class Time: Tuesdays from 6:00pm to 9:30pm,
Location: CDS 264
Semester Duration: 05/19/2026 - 08/07/2026.
Course Dates: https://www.bu.edu/reg/calendars/
Course Web Site: http://learn.bu.edu
Academic Conduct Code:
http://www.bu.edu/met/metropolitan_college_people/student/resources/conduct/code.html.

Course Description
This course covers the areas of Web Analytics, Text and Web Mining, and practical application in domains such as Web Analytics, Scraping, and Crawling, Introduction to Machine Learning and Visualization, Feature Engineering Methods, Sentiment Analysis and Theme Extraction, Graph Mining Algorithms, Clustering.
Course Scope:

- ML and data mining algorithms/concepts (esp. unsupervised learning for web mining)
- Theoretical foundations relevant to web mining
- Introduction of selected R and Python packages for assignments.

Required Course Prerequisites
Students must already be able to write R and Python code.

Books
Machine Learning and Artificial Intelligence: Concepts, Algorithms and Models by Reza Rawassizadeh (BU Campus Barnes & Noble Store, Amazon)

Courseware
Use of course's Blackboard website for in-class tests and quizzes.

Course Grading Criteria

100–93.00	A
92.99–90.00	A–
89.99–87.00	B+
86.99–83.00	B
82.99–80.00	B–
79.99–77.00	C+
76.99–73.00	C
72.99–70.00	C–
69.99–60.00	D
Below 60.00	F

Class Meetings, Lectures & Assignments

The course grade will be based on active class participation and tests/lab projects (40%), quizzes or midterm exam (30%), and a term project (30%). Assignments are expected to be submitted by their respective due dates. Late submissions carry a penalty.

Please note that this is a laboratory course in which in–class use of computers is required. The class is not scheduled in a lab with computers thus laptops are required.