**Object-Oriented Systems Design**

**MASY1-GC 3530 | 100 | Fall 2024 | 09/09/2024 - 12/09/2024 | 3 Credits**

**Modality:** In-person

**Course Site URL:** https://brightspace.nyu.edu

**General Course Information**

**Name/Title:** Mitch Haviv, Adjunct Instructor

**NYU Email:** mh28@nyu.edu

**Class Meeting Schedule:** 09/09/2024 - 12/09/2024 | Mondays | 6:20 pm - 8:55 pm

**Class Location:** In-person

**Office Hours:** By Appointment. Phone: 212-508-7452 or NYU Zoom.

**Description**

This course addresses the concepts, skills, methodologies, techniques, tools, and perspectives essential for project managers, system analysts, business analysts and designers to successfully develop information systems in the object-oriented context. The course presents the concepts of the object-oriented approach and describes a systems development lifecycle framework that is applicable to the analysis and design of object-oriented application systems. Students learn to analyze IT system structures, model information processes, and design/redesign IT systems using object-oriented tools.

**Prerequisites**

3510 – Systems Development and Analysis

**Learning Outcomes**

At the conclusion of this course, students will be able to:

* Select systems development projects that can benefit from object-oriented design
* Design an enterprise system using object-oriented design methods
* Develop an object-oriented development project scope, feasibility study and project plan
* Analyze risk based on system requirements
* Model a business system using UML class diagrams, UML sequence and collaboration diagrams
* Create specifications for a user interface, database and any servers needed to support the object-oriented system

**Communication Methods**

Be sure to turn on your [NYU Brightspace notifications](https://www.nyu.edu/servicelink/KB0018507) and frequently check the “Announcements” section of the course site.

Also, I will send announcements via NYU Email.

To contact me, send me an email. I will respond within 24 hours.

Credit students must use their NYU email to communicate. Non-degree students do not have NYU email addresses. Brightspace course mail supports student privacy and FERPA guidelines. The instructor will use the NYU email address to communicate with students. All email inquiries will be answered within 24 hours.

**Structure | Method | Modality**

There are 14 session topics in this course. The session topics are organized into three (3) areas of study: 1) Analysis Modeling, 2) Design Modeling and 3) Installation and Operations.

Active learning experiences and small projects are key components of the course. Assignments, papers, and exams will be based on course materials, lectures, and class discussions. Course sessions will be conducted synchronously on NYU Zoom, which you can access from the course site in [NYU Brightspace](https://brightspace.nyu.edu/).

This course will meet once a week on Monday, with assignments, announcements and emails being sent through Brightspace. Zoom is the remote instruction platform used at NYU. Students are expected to check email and/or Brightspace at least twice a week for announcements concerning assignments, class changes or cancellations, and other important information. The course will involve lecture/discussions/forum discussions as well as case studies. There will be a Midterm, a Term Project, and a Final Exam. The Term Project must be done individually.

**Expectations**

Learning Environment

You play an important role in creating and sustaining an intellectually rigorous and inclusive classroom culture. Respectful engagement, diverse thinking, and our lived experiences are central to this course and enrich our learning community.

Participation

You are integral to the learning experience in this class. Be prepared to actively contribute to class activities, group discussions, and work outside of class.

Assignments and Deadlines

There will be weekly homework - due at the start of the next session

There will be a weekly quiz at the start of each session.

A Midterm

A Term Project – due December 9

A Final Exam

Course Technology Use

We will utilize multiple technologies to achieve the course goals. I expect you to use technology in ways that enhance the learning environment for all students. All class sessions require use of technology (e.g., laptop, computer lab) for learning purposes.

**Generative AI Use**

**Welcome with Attribution**

You are welcome/ expected to use generative AI tools (e.g. ChatGPT, Dall-e, etc.) in this class as doing so aligns with the course learning goal [insert course learning goal]. You are responsible for the information submitted based on an AI query (for instance, that it does not violate intellectual property laws, or contain misinformation or unethical content). Your use of AI tools must be properly documented and cited. NYU libraries guidance can be found [here](https://guides.nyu.edu/c.php?g=1307730&p=9624166#s-lg-box-30439868).

Feedback and Viewing Grades

I will provide timely meaningful feedback on all your work via our course site in NYU Brightspace. You can access your grades on the course site Gradebook.

Attendance

Students are expected to attend all classes. Attendance will be taken into consideration when determining your final grade. Refer to the [SPS Policies and Procedures page](https://www.sps.nyu.edu/homepage/student-experience/policies-and-procedures.html) for additional information about attendance.

Excused absences are granted in cases of documented serious illness, family emergency, religious observance, or civic obligation. In the case of religious observance or civic obligation, this should be reported in advance. Unexcused absences from sessions may have a negative impact on a student’s final grade. Students are responsible for assignments given during any absence.

Each unexcused absence or being late may result in a student’s grade being lowered by a fraction of a grade. A student who has three unexcused absences may earn a Fail grade.

Students who join the course during add/drop are responsible for ensuring that they identify what assignments and preparatory work they have missed and complete and submit those per the syllabus.

**Textbooks and Course Materials**

*Students can purchase these items through the NYU Bookstore.*

**Required:**

Systems Analysis and Design: An Object-Oriented Approach with UML

Authors – Dennis, Wixom, Tegarden

Publisher – Wiley

2021, 6th Edition

**Recommended:**

Object-Oriented Systems Analysis and Design

Authors - George, Batra, Valacich and Hoffer

Publisher - Pearson/Prentice Hall

2017, 2nd Edition

ISBN-13: 978-0132279000

ISBN-10: 0132279002

* Any other System Design Book of your choice - or
* Learning an Object-Oriented Programming Language

**Grading | Assessment**

Your grade in this course is based on your performance on multiple activities and assignments. Since all graded assignments are related directly to course objectives and learning outcomes, failure to complete any assignment will result in an unsatisfactory course grade. Please carefully proof-read your written assignments before submitting them for a grade. I will update the grades on the course site.

**Assessment Strategy:**

Contributing factors for determining your course grade include:

* [Class Participation](#_Class_Participation:_To) and Quizes - **10%** (*Attendance is a prerequisite to participation)*
* [Homework](#_Homework:_Homework_assignments) - **15%**
* [Midterm Exam](#_Midterm_Exam:_There) - **20%**
* [Project](#_Project:_There_will) – **20%**
* [Final Exam](#_Final_Exam:_There) - **35%**

**Class Participation:** To receive full credit for the course, you should attend all classes since much of the learning occurs during class lecture, presentation, and class discussions. Please contact the instructor if you anticipate missing any part of the class. Please arrive on time so as not to disturb the flow of the lecture. Excessive lateness’s may result in lower overall grade. Participation grades will be based on:

* Involvement in class discussions and activities
* Participation which demonstrates integration of reading, class work, relevance, and application.
* Willingness to learn by accepting feedback, trying new skills and approaches, etc.
* Quality/quantity of providing effective and balanced feedback.

**Homework:** Homework assignments must be submitted on time within 1 week of date assigned (unless otherwise instructed). Late submission will impact your homework grade or may not be accepted altogether at instructor’s discretion. Late submission will incur 10 points penalty for each session we meet and not submitted.

**Project:** There will be a project. It will include the culmination of topics, concepts and competencies learned in this class.

**Midterm Exam:** There will be a midterm exam. The exam will be a closed book. The exam will test the student's acquisition of topics, concepts and competencies learned in this class up to mid-term.

**Final Exam:** There will be a final exam. The exam will be a closed. The exam will test the student's acquisition of topics, concepts and competencies learned in this class. The final exam will cover all material covered in the term (cumulative).

See the [“Grades” section of Academic Policies](https://www.sps.nyu.edu/homepage/student-experience/policies-and-procedures.html#Graduate1)” for the complete grading policy, including the letter grade conversion, and the criteria for a grade of incomplete, taking a course on a pass/fail basis, and withdrawing from a course.

**NYU SPS Graduate Grading Scale**

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | 95-100 | 4.000 | **Exceptional:** Demonstrates exceptional mastery of all learning outcomes of the course and thorough and complete understanding of all concepts. |
| **A-** | 90-94 | 3.667 | **Excellent:** Demonstrates highly competent mastery of all learning outcomes of the course and strong understanding of all concepts. |
| **B+** | 87-89 | 3.333 | **Very Good; exceeds course standards:** Demonstrates mastery of all learning outcomes of the course and understanding of core concepts. |
| **B** | 83-86 | 3.000 | **Good; meets course standards:** Demonstrates mastery of some learning outcomes; understanding of some core concepts could be improved. |
| **B-** | 80-82 | 2.667 | **Somewhat Satisfactory;** meets some course standards and requires improvement: Demonstrates basic understanding of some learning outcomes; improved understanding of all core concepts is needed. |
| **C+** | 77-79 | 2.333 | **Less than Satisfactory; requires significant improvement:** Demonstrates partial understanding of all learning outcomes and core concepts; requires significant improvement. |
| **C** | 73-76 | 2.000 | **Unsatisfactory; requires substantial improvement:** Demonstrates partial understanding of some learning outcomes and core concepts; requires substantial improvement. |
| **C-** | 70-72 | 1.667 | **Unsatisfactory; requires extensive improvement:** Demonstrates poor understanding of all learning outcomes and core concepts; requires extensive improvement. |
| **F** | Below 70 |  | **Fail:** Demonstrates minimal to no understanding of all key learning outcomes and core concepts; work is unworthy of course credit towards the degree. |
| **P** |  |  | **Passing:** If a Pass/Fail grade is allowed, the choice of pass/fail must be made prior to the completion of the fifth week of the term. |

**Course Outline**

**Start/End Dates:** 09/09/2024 - 12/09/2024 | Mondays

**Time:** 06:20 pm - 08:55 pm

**No Class Date(s):** Monday - 10/14/2024

**Special Notes:** Tuesday 10/15/2024 – Legislative Monday: Classes will meet according to a Monday schedule on Tuesday, October 15, 2024

**Session 1 - 09/09/24**

**Topic Description: Introduction to Object Oriented Design**

**Session Objectives**

1. Understand the objectives of the course
2. Understand the System Development Life Cycle
3. Understand the role of the Systems Analyst
4. Understand the basics of Object-Oriented Design (OOD)
5. Understand the Unified Process and the Unified Modeling Language (UML)

**Session Outline**

* Understanding the Goals of the Course

What are the goals? How is the course graded? What do you want to learn?

* SDLC – the Software Development Life Cycle
* Planning, Analysis, Design, Implementation
* Roles and Skills required in System Design
* What is a Systems Analyst?
* How does the SA work with the Business Analyst?
* How does the SA work with the Project Manager? Others?
* Development Methodologies (intro)
* Structured Design (Waterfall)
* RAD (Prototyping, Phased, Throwaway)
* Agile Design (XP, Scrum)
* Object Oriented Systems (intro)
* Basic Introduction
* Classes, Objects (Attributes and Methods)
* The 3 Key Ideas: Encapsulation / Inheritance / Polymorphism
* Design Basics (OOSAD – Object Oriented Systems Analysis and Design)
* Use-Case
* Architecture Driven (Views: Functional, Behavioral, and Structural)
* Iterative / Incremental
* UML – Unified Modeling Language
* The Unified Process (Integration / Elaboration / Construction / Transition / Production)
* UML

**Assignments:**

HOMEWORK #1 (due at the start of next session)

All 3 of these – Chapter 1 Exercises G and H (page 29) and Appendix Exercise D (page 40)

and

Chapter 1 – Minicase 1 (page 30)

**Session 2 – 09/16/24**

**Topic description** – **Project Management**

**Session Objectives**

1. Understand how business needs affects the information system
2. Understand how to do a feasibility analysis
3. Understand how use-cases can help in the analysis
4. Understand how to create a work plan
5. Understand how to staff a project
6. Understand how project management workflows interact with other workflows

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* Project Identification

What is a System Request?

* Feasibility Analysis

Technical Feasibility

Economic Feasibility – NPV / ROI / Accounting!!

Organizational Feasibility

* Project Management Tools
* GANTT chart
* Network Diagrams
* Other tools
* Work plan
* Scope
* Refining
* Managing Risk
* Staffing
* Staffing Plan
* Managing and Motivating Staff
* CASE tools

**Assignments:**

HOMEWORK #2 (due at the start of next session)

All 3 of these – Chapter 2 Exercises B, H, M

and

Chapter 2 – Minicase 3

**Session 3 – 09/23/24**

**Topic description** **– Requirements**

**Session Objectives**

1. Understand how to define requirements
2. Understand how to analyze requirements
3. Understand how to gather requirements
4. Understand the importance of management and user acceptance

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* Requirements
* Why are they needed?
* Requirement Determination
* Defining
* Gathering
* Creating a Requirements Definition
* Requirement Analysis

Different types of analysis

* + - Problem / Root Cause / Costs / Outcome / Technology
      * Benchmarking
* Requirements Gathering
* Interviews
* Joint Application Development (JAD)
* Questionnaires
* System Proposal
* Staffing Plan
* Managing Staff

**Assignments:**

All 3 of these – Chapter 3 Exercises A, B, H

and

Chapter 3 – Minicase 1

**Session 4 – 09/30/24**

**Topic description – Business Process and Modeling**

**Session Objectives**

1. Understand how to identify Business Processes
2. Understand how to create Use Cases
3. Understand how to create functional models using Use Case and Activity Diagrams
4. Understanding how to verify the models

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* Use Case Diagrams
* Elements of Use Case Diagrams
* Creating a Use Case Diagram
* More About Use Cases
* Types
* Elements of Use Case
* Describing a Use Case
* Examples – and more examples
* Business Process Modelling via Activity Diagrams
* Elements of an Activity Diagram
* Creating an Activity Diagram
* Verifying and Validating
* Walkthroughs
* Functional Model Validation

**Assignments:**

HOMEWORK #4 (due at the start of next session)

Chapter 4 Exercises U, V, W

and

Chapter 4 – Minicase 1

**Session 5 – 10/07/24**

**Topic description –** **Object Oriented Design**

**Session Objectives**

1. Understand Classes and Objects
2. Understand how to create class diagrams
3. Understand how to use CRC cards
4. Understand a Structural Model
5. Understand how to apply the model

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* Structural Models
* Classes and Attributes and Methods
* Encapsulation / Inheritance / Polymorphism
  + Information Hiding
* Relationships
* Object Identification
* Patterns
* Common Object Lists
* Class Diagrams
* Elements of a diagram
* Object Diagrams
* Creating Structural Models
* CRC Cards (Class - Responsibility - Collaboration)
* Elements of a CRC card
* Verifying and Validating the Structural Model

**Assignments:**

Chapter 5 - Exercise E (choose 3 of the 4)

and

Chapter 5 - Exercises V and W

and

Chapter 5 – Minicase 2

**Session 6 TUESDAY RESCHEDULE DUE TO NYU LEGISLATIVE DAY – 10/15/24**

**Topic description – Behavioral Models**

**Session Objectives**

1. Understand how to create sequence diagrams
2. Understand how to create communication diagrams
3. Understand state machines
4. Understand the relationship between different types of models

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* Behavioral Models
  + - * + Why are they needed?
* Interaction Diagrams
* Object and Operations
* Messages
* Sequence Diagrams
* Communication Diagrams
* State Machines
* States
* Events
* Actions
* Elements of a State Machine
* Creating a State Machine
* CRUDE Analysis
  + - Create / Reference / Update / Delete / Execute

Verifying and Validating the Behavioral Model

**Assignments:**

HOMEWORK #6 (due at the start of next session)

Chapter 6 - Exercise A

And

Chapter 6 –Exercise H

and

Chapter 6 – Minicase 2

**Session 7 – 10/21/24**

**Topic description – Design!**

**Session Objectives**

1. MIDTERM
2. Understand how to verify and compare different types of models
3. Understand how to start the design
4. Understand factoring, layers, and partitions
5. Understand package diagrams
6. Understand custom, packaged, and outsourced design

**Session Outline**

* MIDTERM
* Verifying the different types of models
* Functional Model (the job requirement)
* Structural Model (the data)
* Behavioral Model (the interaction)
  + Starting the Design
* Factoring
* Partitions
* Layers
* Packages
* Creating a Package Diagram
* Verifying
* Design
* Custom Development
* Package
* Outsourcing
* Which is best for the project?
* Selecting a Design

**Assignments:**

HOMEWORK #7 (due at the start of next session)

Chapter 7 – Exercise H

and

Chapter 7 – Minicase 4

**Session 8 – 10/28/24**

**Topic description – Classes and Methods**

**Session Objectives**

1. Understand Objects
2. Understand Design of Objects
3. Understand Reuse of Objects
4. Understand Constraints and Contracts
5. Understand Methods

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* TERM PROJECT – START CONSIDERING
* Objects
* Classes / Object / Methods
* Encapsulation
* Inheritance
* Polymorphism
* Design Criteria
  + Coupling
  + Cohesion
* Object Activities
* Changing Specifications
* Reusing Objects
* Optimizing the design
* Constraints
* Types of constraints and contracts
* Methods
* Events
* Messages
* Verifying

**Assignments:**

Chapter 8 – Exercise E

and

Chapter 8 – Minicase 3

**Session 9 – 11/04/24**

**Topic description – Data Management Layer**

**Session Objectives**

1. Understand Data Storage and Object Persistence
2. Understand Mapping of data to formats
3. Understand how to Optimize a Relational Database (RDB)
4. Understand how to access the data within the RDB

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* Data Storage Formats (Object Persistence)
* Sequential Access
* Random Access
* Object Relational DB (ORDBMS)
* Object Oriented DB (OODBMS)
* NoSQL data / HADOOP
* Mapping Objects
  + Regarding ORDBMS, OODBMS, RDBMS
* Optimizing Storage
* Access Speed
* Storage Size
* Efficient
* Data Access Classes and Manipulation Classes
* Verifying

**Assignments:**

Chapter 9 – Exercise L (page 347)

and

Chapter 9 APPENDIX – Exercise G (1 and 2) (page 361)

and

Chapter 9 – Minicase 2 (page 349)

And

Chapter 9 APPENDIX – Minicase 2a (page 362)

**Session 10 – 11/11/24**

**Topic description – User Interface Layer**

**Session Objectives**

1. Understand User Interface Design Principles
2. Understand how to Design to Standards
3. Understand Navigation
4. Understand Input and Output
5. Understand how to Design a User Interface

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* TERM PROJECT – Your Requirements Finalized
* User Interface Design
  + Layout
  + Content
  + Aesthetics
  + Consistency
  + Minimizing Effort
  + Use Scenario Development
  + Navigation Design
  + Prototype
  + Evaluation
* Input
* Types of Input
* Validation of Input and Security

Output

Types of Output

Media

* Other things critical to design
* Mobile Computing
* Social Media
* Specialized Interface Design
* International and Cultural Interface Design

**Assignments:**

Chapter 10 – Exercises Q and R

and

Chapter 10 – Minicase 4

**Session 11 – 11/18/24**

**Topic description – Physical Architecture Layer**

**Session Objectives**

1. Understand Physical Architecture Considerations
2. Understand Client-Server architectures
3. Understand Cloud Computing
4. Understand Networks
5. Understand Specifications

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* Physical Architecture Layer
* Components
* Server Side
* Client Side
* Client-Server architecture
* Cloud Computing

IoT

* Infrastructure Design

Network

Deployment Diagram

* Hardware and System Specifications
* Other Considerations (non-functional)
* Operational
* Performance
* Security
* Verifying

**Assignments:**

Chapter 11 – Exercise E

and

Chapter 11 – Exercise S (some versions of the book have this as Exercise R.a)

and

Chapter 11 – Minicase 4

**Session 12 – 11/25/24**

**Topic description – Construction**

**Session Objectives**

1. Understand how to Manage the Programming
2. Understand Documentation
3. Understand Testing
4. Understand why User Acceptance Testing is critical
5. Understand how to put the system into Production
6. Understand Change Management

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* Programming
* Assigning Programmers
* Coordination
* Scheduling
* Documentation
* Types of Documentation
* Designing Documentation
* Testing
* Testing and OO
* Who is involved? Planning?
* Unit Test
* Integration Tests
* System Tests
* User Acceptance Tests

**Assignments:**

TERM PROJECTS DUE NEXT WEEK, DECEMBER 7

* Due Next time:

Chapter 12 – Exercise D

and

Chapter 12 –Exercises N and O

and

Chapter 12 – Minicase 2

**Session 13 – 12/02/24**

**Topic description – Installation and Operation / REVIEW**

**Session Objectives**

1. Understand how to put the system into Production
2. Understand Change Management
3. Term Project Review
4. Course Review

**Session Outline**

* Quiz
* LAB – clarifying what we know - using cases
* Conversion and Implementation
* Style
* Strategy
* Change Management
* Accepting the Change
* Managing the Change
* Costs and Benefits
* Driving Adoption
* Training
* Post Implementation Details

System Support

* + System Maintenance
  + Assessment
  + When is it time for 2.0?

**Assignments:**

* Term Project Should Be Well Underway
* Study for next week’s final exam

**Session 14 – 12/09/24**

**Topic description – Review and FINAL**

* Wrap Up and Review Course
* Term Project Due
* FINAL Exam (good luck!)

**NOTES:**

The syllabus may be modified to better meet the needs of students and to achieve the learning outcomes.

The School of Professional Studies (SPS) and its faculty celebrate and are committed to inclusion, diversity, belonging, equity, and accessibility (IDBEA), and seek to embody the IDBEA values. The School of Professional Studies (SPS), its faculty, staff, and students are committed to creating a mutually respectful and safe environment (*from the* [SPS IDBEA Committee](https://www.sps.nyu.edu/homepage/about-us/idbea/about-idbea.html)).

**New York University School of Professional Studies Policies**

1. Policies - You are responsible for reading, understanding, and complying with [University Policies and Guidelines](http://www.nyu.edu/about/policies-guidelines-compliance.html), [NYU SPS Policies and Procedures](http://sps.nyu.edu/academics/academic-policies-and-procedures.html), and [Student Affairs and Reporting](https://www.nyu.edu/about/policies-guidelines-compliance/policies-and-guidelines/student-services.html).

2. Learning/Academic Accommodations - New York University is committed to providing equal educational opportunity and participation for students who disclose their dis/ability to the [Moses Center for Student Accessibility](https://www.nyu.edu/students/communities-and-groups/student-accessibility.html). If you are interested in applying for academic accommodations, contact the [Moses Center](https://www.nyu.edu/students/communities-and-groups/student-accessibility/academic.html) as early as possible in the semester. If you already receive accommodations through the Moses Center, request your accommodation letters through the [Moses Center Portal](https://www.nyu.edu/students/communities-and-groups/student-accessibility.html) as soon as possible ([mosescsa@nyu.edu](mailto:mosescsa@nyu.edu) | 212-998-4980).

3. Health and Wellness - To access the University's extensive health and mental health resources, contact the [NYU Wellness Exchange](https://www.nyu.edu/students/health-and-wellness/wellness-exchange.html). You can call its private hotline (212-443-9999), available 24 hours a day, seven days a week, to reach out to a professional who can help to address day-to-day challenges as well as other health-related concerns.

4. Student Support Resources - There are a range of resources at SPS and NYU to support your learning and professional growth. For a complete list of resources and services available to SPS students, visit the [NYU SPS Office of Student Affairs site](https://www.sps.nyu.edu/homepage/student-experience/resources-and-services.html).

5. Religious Observance - As a nonsectarian, inclusive institution, NYU policy permits members of any religious group to absent themselves from classes without penalty when required for compliance with their religious obligations. Refer to the [University Calendar Policy on Religious Holidays](https://www.nyu.edu/about/policies-guidelines-compliance/policies-and-guidelines/university-calendar-policy-on-religious-holidays.html) for the complete policy.

6. Academic Integrity and Plagiarism - You are expected to be honest and ethical in all academic work. Moreover, you are expected to demonstrate how what you have learned incorporates an understanding of the research and expertise of scholars and other appropriate experts; and thus, recognizing others' published work or teachings—whether that of authors, lecturers, or one's peers—is a required practice in all academic projects.

Plagiarism involves borrowing or using information from other sources without proper and full credit. You are subject to disciplinary actions for the following offenses which include but are not limited to cheating, plagiarism, forgery or unauthorized use of documents, and false form of identification

[Turnitin](https://www.nyu.edu/servicelink/KB0018471), an originality detection service in NYU Brightspace, may be used in this course to check your work for plagiarism.

Read more about academic integrity policies at the NYU School of Professional Studies on the [Academic Policies for NYU SPS Students](https://www.sps.nyu.edu/homepage/student-experience/policies-and-procedures.html) page.

7. Use of Third-Party Tools - During this class, you may be required to use non-NYU apps/platforms/software as a part of course studies, and thus, will be required to agree to the “Terms of Use” (TOU) associated with such apps/platforms/software.

These services may require you to create an account, but you can use a pseudonym (which may not identify you to the public community, but which may still identify you by IP address to the company and companies with whom it shares data).

You should carefully read those terms of use regarding the impact on your privacy rights and intellectual property rights. If you have any questions regarding those terms of use or the impact on the class, you are encouraged to ask the instructor prior to the add/drop deadline.