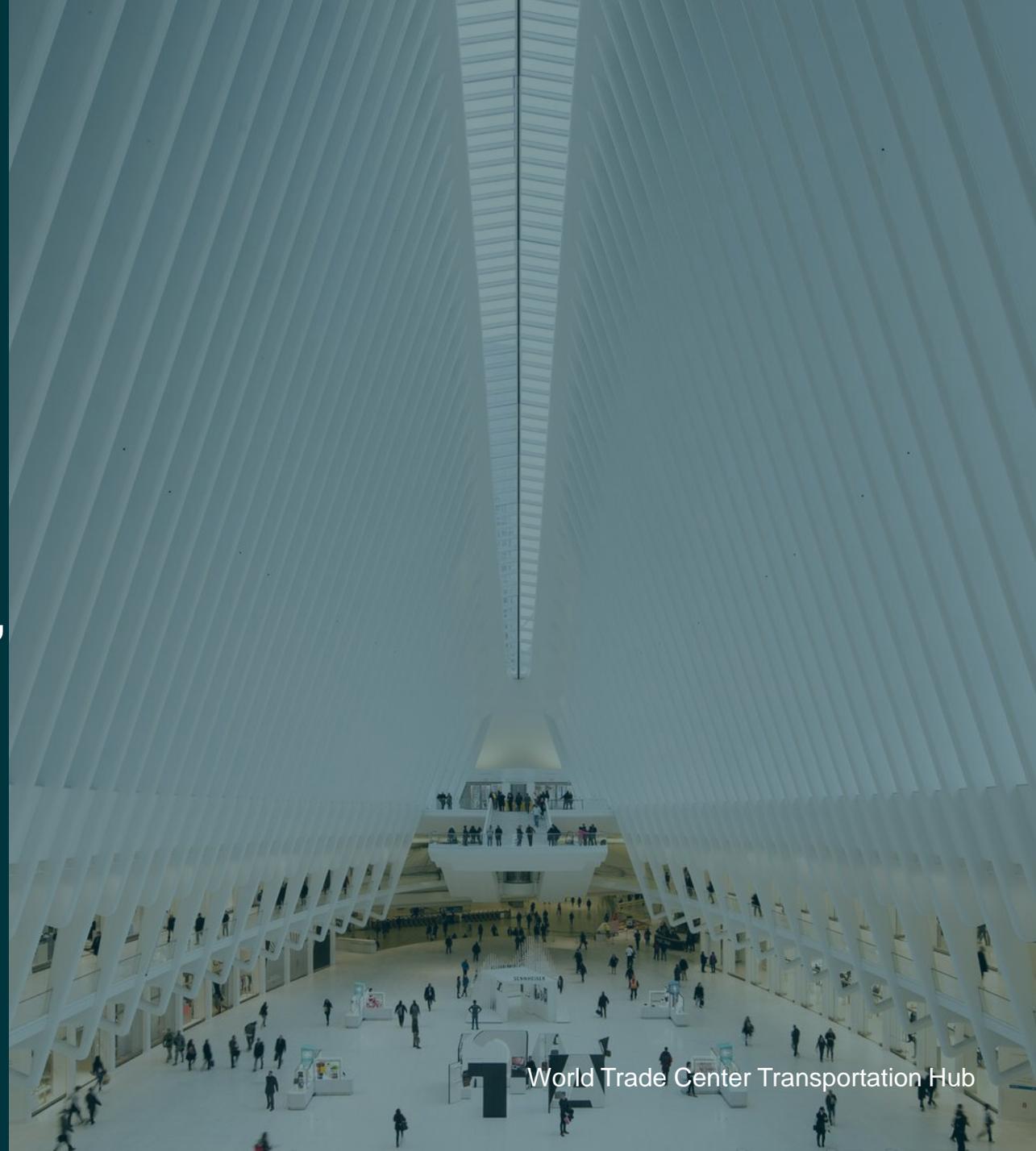


**Practicum Methodologies:
Agile Project Management
and Traditional Project
Management**

Project is a **temporary** endeavor
undertaken to create a **unique** product,
service or result.



World Trade Center Transportation Hub



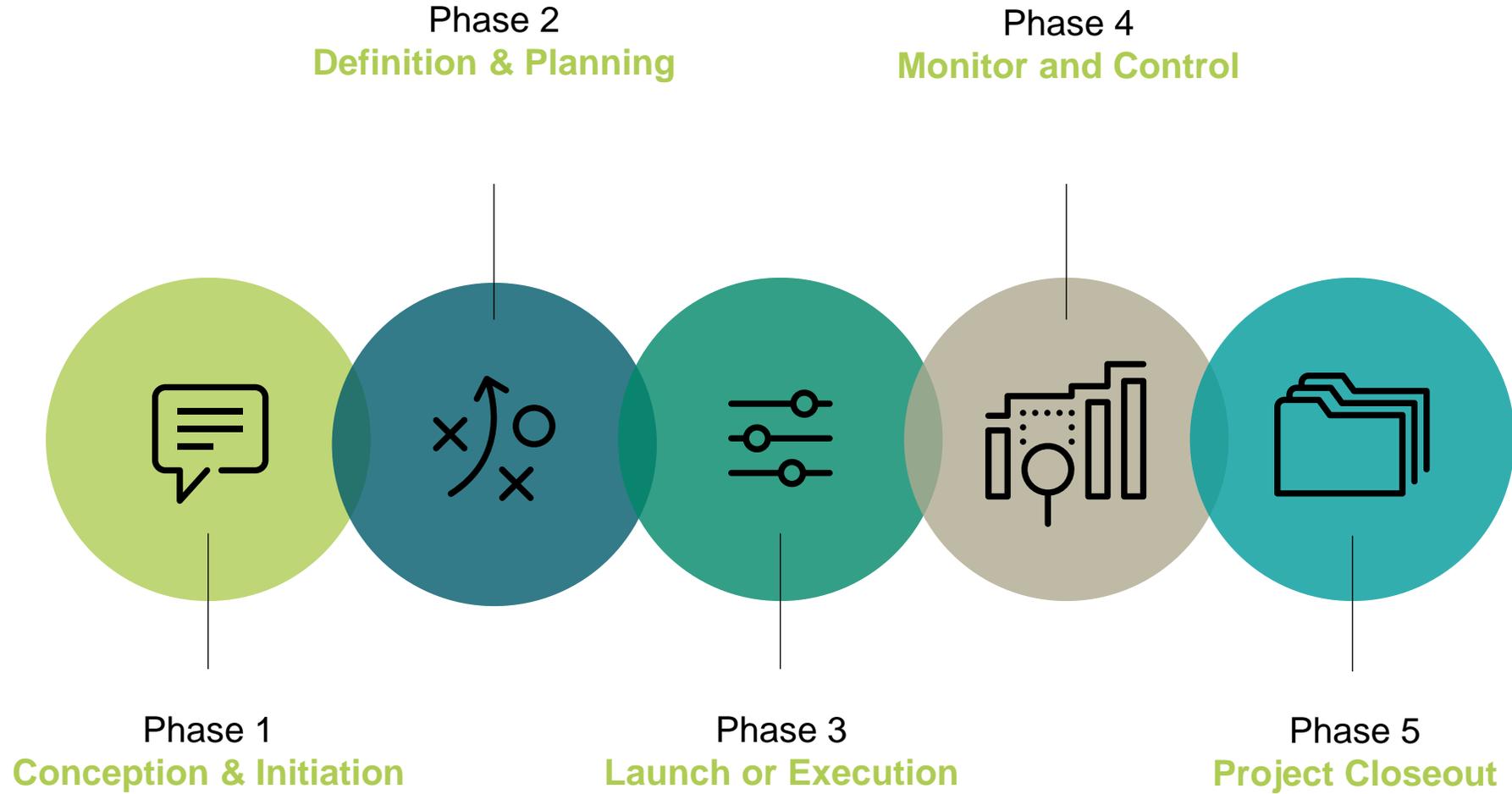
Brooklyn Bridge

Project Management is the application of **knowledge, skills, tools and techniques** to meet project requirements.



Traditional Project Management

Traditional Project Management - Phases



Traditional Project Management - Phases

Phase 1
Conception & Initiation

Phase 2
Definition & Planning

Phase 3
Launch or Execution

Phase 4
Monitor and Control

Phase 5
Project Closeout

Scope	Create a high-level Scope statement	Solidify Scope statement Develop Change Plan		Control Scope	Ensure scope meets client's expectations Obtain customer acceptance
Schedule	Develop high level schedule	Create Work Breakdown Structure Define, sequence and estimate activities Develop schedule	Follow the plan Validate project milestones	Control Schedule Track and monitor delays	
Cost	Develop fee and preliminary budget	Develop detailed budget Develop Cost Management Plan		Monitor Cost Performed Earned Value Analysis Adjust Estimate at Completion	
Quality			Perform Quality Assurance	Perform Quality Control	
Resources	Identify staffing requirements, skills, time		Acquire Project Team Develop Project Team	Monitor resources utilization	
Communication	Identify key stakeholders	Establish Communication Protocol			
Risk	Identify risks				
Procurement	Identify contract requirement and needs, materials, skillset)		Procure and onboard subcontractors	Contract Administration	Close subcontractor contracts

Practicum Project Details - Background



[NYC: The BIG U | Rebuild By Design](#)

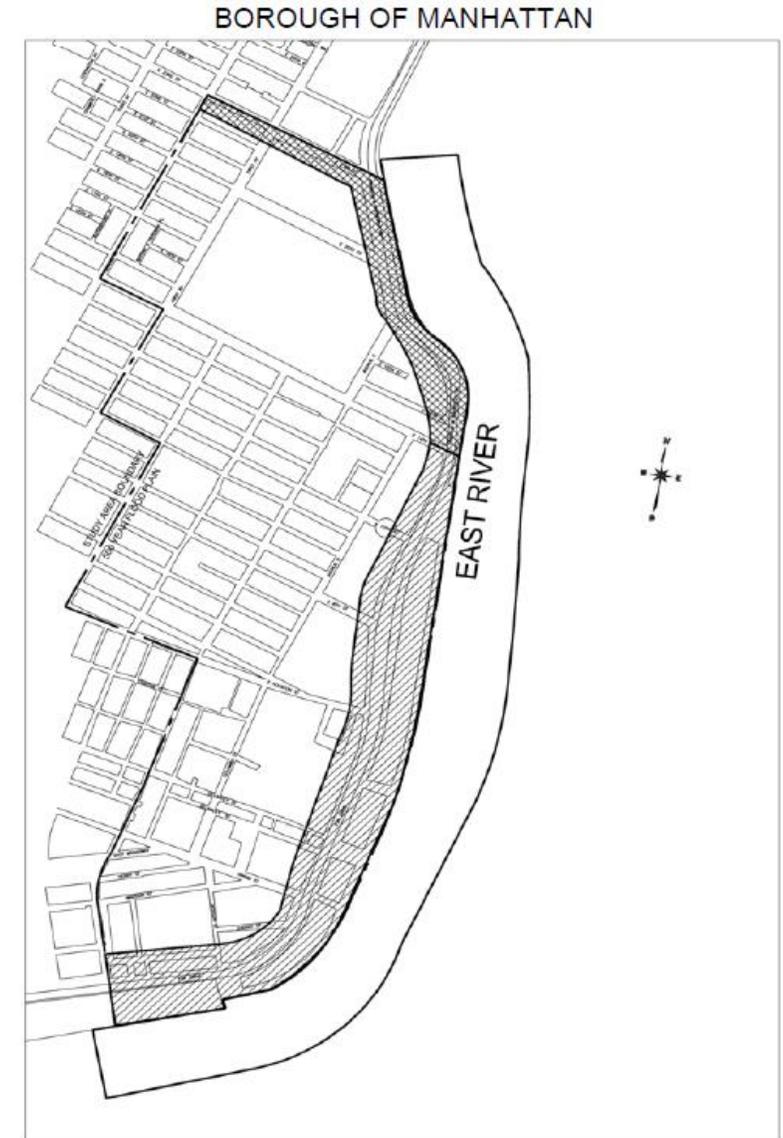
Practicum Project Details

Client: NYC Department of Design and Construction

Project Name: Feasibility study and pre-scoping services for East Side Coastal Resiliency

Request of Proposals: The New York City Department of Design and Construction (DDC) has awarded contracts to ten Consultants to provide engineering design services for design of infrastructure projects. As part of this effort, DDC, in partnership with the New York City Department of Parks and Recreation ("DPR") and the Mayor's Office of Recovery and Resiliency ("ORR"), requests proposals for engineering, planning, landscape architecture, urban design, and community engagement services for preparing all analyses, surveys, designs, permit identification and related documents for the development of: **Feasibility study and pre-scoping services for East Side Coastal Resiliency**

[East Side Coastal Resiliency \(nyc.gov\)](https://www.nyc.gov/east-side-coastal-resiliency)



Project Location Map

CBIPS Practicum

AECOM Overview

Agenda

01. AECOM Overview

- Introduction to AECOM
- Exciting Programs for Young Professional Development

02. 2021 – 2022 Practicum

- Guest Lectures
- Site Visit

03. 2022 – 2023 Practicum

- Team
- Syllabus

04. Q&A

AECOM overview

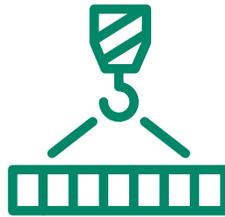
Our business



Design consulting services

Connecting disciplines and resources to deliver innovative infrastructure solutions

Planning, architectural, engineering and consulting services for public- and private-sector clients around the world



Construction management

Delivering the most iconic, complex structures ever conceived

Building, modernizing and expanding projects throughout North America



AECOM Capital

Best-in-class investment and execution capabilities

Investor and developer of real estate across North America and select international markets

Our markets



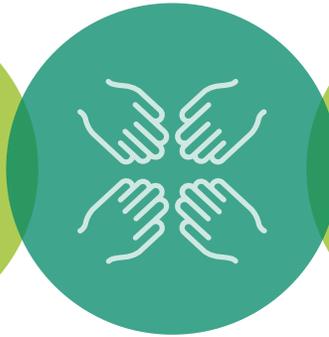
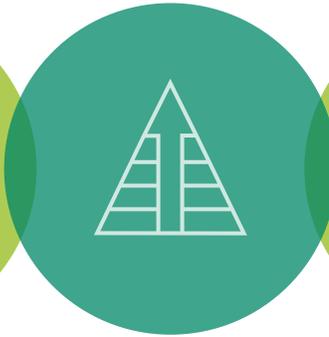
By the numbers

Nearly
50k
People

7
Continents

US\$13.3B
FY 2021 revenue

#189
Fortune 500



Featured on
**Fortune's "World's
Most Admired
Companies"**
seven years in a row

#1 transportation design firm,
facilities design firm,
environmental science and
global environmental consulting
firm, and **#2 water design** firm
as ranked by **Engineering-
News Record**

Named one of 2021 **World's
Most Ethical Companies** for
its commitment to integrity and
making a positive impact by
Ethisphere

Received a perfect score
four years in a row on the
**Human Rights Campaign
Foundation's Corporate
Equality Index**

Programs for Young Professionals



The Deputy Project Manager Program:
The DPM program is a regional program established in Metro New York with the following objectives: Provide support to Project Managers, attract young professionals, and grow the next generation of PMs.



Digital AECOM:
The Digital AECOM group delivers services across multiple regions and markets. The team offers consulting services across four key areas: Digital strategy, Digital Design and Operations, Data Analytics and AI, and Digital Solutions Delivery.



Fantastic Friday Speed Hiring Event:
The Fantastic Friday Speed Hiring Event is a Metro NY invite-only hiring event for recent and upcoming graduates. During the event, young professionals get the chance to meet our local Metro NY leadership, learn about graduate-level opportunities at AECOM, interview with AECOM hiring managers.



Mentorship:
AECOM gives its employees the opportunity to create mentor relationships. and provides a forum in which the mentee can seek and receive constructive and honest advice to support their career development and the mentor can share their wealth of knowledge and experience with AECOM employees.

We're one team driven by a common purpose in everything we do:

Delivering a better world.

**2021 – 2022
AECOM Practicum**

Site Visit: Javits Center

With Wahid Albert – Vice President, Regional Director of HWB Projects, NY Metro





**2022 – 2023
AECOM Practicum**

Practicum in a Snapshot

1

3 Guest Lectures per semester
6 in total

- Capital Infrastructure Project
- Digital transformation (PMIS)
- Operational Excellence

2

1 Site visit per semester
2 in total

- Highrise building in NYC
- High profile infrastructure projects

3

Friday 3:30 pm – 5:15 pm

45 min session

2 sessions

10 min break

AECOM NYC Offices

4

Office Hour

- Assigned mentors to answer questions through weekdays
- Office hour during the week

5

Volunteers from different disciplines

- Project Management
- Business Operations
- Design
- Consulting

6

Individual Assignments & Team Projects at the end of each Semester

Presentation Opportunity in front of C-Suite Executives

Syllabus

Traditional Project Management Methodologies

Content	Guest Lecture
Introduction / Traditional vs Agile	
Go/No Go / Risk Assessment / Proposal Preparation / Pre-Planning	
Contracts and Negotiations	45m
Project Initiation / Set Up / Project Management Plan	
Project Monitoring and Controls / Change Management / Sub Mgmt	
Change Management / Sub Mgmt	45m
Technical Quality Review / Project Closeout	
Site Visit	
Project Report Initial Drafting	
Project Report Finalized Version	45m
Mock Presentation	
Final Presentation	

Agile Project Management Methodologies

Content	Guest Lecture
Recap Project KPIs	
Defining Business Operations KPIs	
Defining Scope Requirements	45m
Power BI Intro / Dashboard Demonstration	
Sprint 1 - Draft Dashboard & Agile Methodologies, Scrum & Kanban	
Sprint 2 - Draft Dashboard & Agile Roles and Responsibilities	45m
Sprint 3 - Draft Dashboard & Agile Project Performance and Approaches	
Sprint 4 - Draft Dashboard & Agile Stakeholder Engagement	
Sprint 5 - Draft Dashboard & Agile Project Risks and Issues	45m
Site Visit	
Pre-Final Dashboard	
Mock Presentation	
End of Semester Re-Cap/Presentations	

Practicum Leads



Nare Aghasarkissian
Deputy Project Manager



Lizzie Song
Deputy Operations Manager

Executive Sponsors



Denise Berger
Chief Strategy & Innovation
Officer



Robert Lowe
Vice President, Engineering



David Beckett
Vice President, Director of
Operations
Program & Project
Management

Advisors



Dimitra Karachaliou
Project Controls Manager



Jihad Maksad
Senior Cost Manager

AECOM Practicum Leads:

Nare Aghasarkissian is a Package Manager for the JFK New Terminal One design-build project at AECOM Metro NY. She was one of the CBIPS Practicum mentors in the past year. She has previously worked in the Program and Project Management group as Deputy Project Manager, providing internal project controls and operations support for a wide array of programs. Nare holds a Bachelor of Engineering in Civil Engineering from the American University of Beirut, and she is a certified Associate Design-Build professional. Nare has active industry involvement and was recently selected as AIM ambassador at the Women Builders Council Leadership Forum. She is also engaged in high school and college mentorship programs like the ACE Mentor Program of Greater NY.

Lizzie Song is a Deputy Operations Manager at AECOM, focusing on strategic initiatives and business operations optimization. She has been leading the CBIPS Practicum for the past year. Lizzie gained her bachelor's degree in Structural Engineering in Wuhan, China where she was born and raised, and she holds a master's degree in Construction Engineering Management from Columbia University. She was the first batch of CBIPS fellows, and had the opportunity to visit Paris, Los Angeles, and London with CBIPS. She serves as the Event Chair and AECOM Liaison for Professional Women in Construction Organization. She was selected as AIM Ambassador at the Women Builders Council Leadership Forum. Lizzie is a certified Project Management Professional (PMP) as well as an Associate Design-Build professional. In 2018, she was selected as Forbes Under 30 Scholar.

AECOM Advisors:

Dimitra Karachaliou is a Project Controls Manager with AECOM for the past six years, where she is providing advisory services for clients in the New York Metro Area. She is specialized in Project Controls and Digital Transformation Program Management. She holds a Structural Engineering Diploma (master's equivalent) from N.T.U.A., Athens, Greece, and a Master's in Construction Management from Columbia University, New York. She is a certified Project Management Professional (PMP) and she has received the CORO Leadership New York Certification. She has extensive mentorship experience, including CBIPS, PWC and ACE.

Jihad Maksad is a Program and Cost Consultant focused on program development and implementation in conjunction with cost management services for civil and infrastructure projects with a focus on MEP systems and the fit-out of commercial offices for corporate end-users. He works with AECOM's Program Cost Consultancy practice and has 12 years of experience in the construction industry with 4 years working in the United States. Jihad holds a bachelor's in mechanical engineering from The American University of Beirut and a master's in construction management from Columbia University. He is a certified LEED AP BD+C and a certified Project Management Professional (PMP).

Appendix - Syllabus with dates

Traditional Project Management Methodologies		
Date	Content	Guest Lecture
9/16/2022	Introduction / Tra vs Agi	
9/23/2022	Go/NoGo / Risk Assessment / Proposal Preparation / Pre-Planning	
9/30/2022	Contracts and Negotiations	45m
10/7/2022	Project Initiation / Set Up / Project Management Plan	
10/14/2022	Project Monitoring and Controls / Change Management / Sub Mgmt	
10/21/2022	Change Management / Sub Mgmt	45m
10/28/2022	Technical Quality Review / Project Closeout	
11/4/2022	Site Visit	
11/11/2022	Sprint - Project Report Demonstration	
11/18/2022	Sprint	45m
11/25/2022	Thanksgiving - no session	
12/2/2022	Mock Presentation	
12/9/2022	Final Presentation	

Agile Project Management Methodologies		
Date	Content	Guest Lecture
1/20/2023	Recap Project KPIs / Defining Ops KPIs	
1/27/2023	Defining KPIs	
2/3/2023	Defining Scope Requirements	45m
2/10/2023	Power BI Intro / Dashboard Demonstration	
2/17/2023	Sprint 1 - Draft Dashboard & Agile Methodologies, Scrum and Kanban	
2/24/2023	Sprint 2 - Draft Dashboard & Agile Roles and Responsibilities	45m
3/3/2023	Sprint 3 - Draft Dashboard & Agile Project Performance and Approaches	
3/10/2023	Sprint 4 - Draft Dashboard & Agile Stakeholder Engagement	
3/17/2023	Sprint 5 - Draft Dashboard & Agile Project Risks and Issues	45m
3/24/2023	Spring Break - no session	
3/31/2023	Site Visit	
4/7/2023	Pre-Final Dashboard	
4/14/2023	Mock Presentation	
4/21/2023	End of Semester Re-Cap/Presentations	

AECOM Delivering a
better world