University of California, Berkeley Walter A. Haas School of Business

UGBA 141: Production and Operations Management

Fall 2022 Course Syllabus

[DRAFT]

(Last updated: 7/13/2022)

Instructor: Professor Park Sinchaisri

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Office Hours: TBD, or by appointment

Lectures: Mondays/Wednesdays 11-12:30pm Lectures @ Chou N470

Discussions: Fridays 1-2pm @ Chou N470
Discord: Contact us for the invite link

(for questions on concepts, logistics, and assignments, team forming)

GSI: Ailiya Duan (ailiya duan@berkeley.edu)

GSI Office Hours: TBD

Course Description and Overview

Operations is the design and management of the processes that transform inputs into finished goods or services. Operations is one of the primary functions of a firm. While marketing induces the demand for products and finance provides the capital, operations *produces and delivers* the product (goods and services). It is responsible for matching supply with demand. This course introduces the concepts and analytic methods that are useful in understanding the management of a firm's operations.

We will cover topics in Operations that are relevant both for products and services. Our aim is to (1) familiarize you with the problems and issues confronting operations managers, and (2) provide you with language, concepts, insights, and tools to deal with these issues in order to gain competitive advantage through operations. We will cover seven modules: process analysis, quality management, inventory management, supply chain management, queueing, operations strategy, and emerging topics including sustainability, people operations, and the future of work. Examples will be drawn from a diverse set of services and products, from food to fashion, from hotels to healthcare, from e-commerce to ride-sharing.

Class sessions will have a mix of a lecture and discussion that will provide the foundational material on a topic, and a case discussion. The Friday discussion sections will take several different formats, including reviews of materials, problem-solving sessions, and informal

sessions to help you in preparing the cases. Throughout the course, you will also gain handson exposure to the concepts from experiential simulation games and a final project.

Assignments and Grading

Your course grade will be determined by your performance on graded assignments, recitation exercises, and the final exam, with the following weights:

Class preparation and contribution 10%

Problem sets (x 4) 12% (4 x 3%)
Case assignments (x 3) 9% (3 x 3%)

Littlefield Simulation 7% (3% performance, 4% strategy slides)

Final project 12% (2% proposal, 5% presentation, 5% report)

Midterm exam (Monday 10/10/2022) 20% Final exam (Monday 12/12/2022) 30%

Class contribution grades will be determined based on the extent to which you demonstrate that you are prepared, the relevance and depth of your comments (quality, not quantity), and the degree to which you listen carefully and respond to your peers. Although participating in lecture sessions is also of value, a primary means by which students will distinguish themselves in their "class contribution" is by thoroughly preparing cases and participating in case discussions in a way that brings insight to the rest of the class. Failure to attend class will have adversely affect the "class contribution" portion of your final grade. Use of an electronic device (e.g., phone, tablet, computer) for anything unrelated to the course during class time will materially and adversely affect your final course grade.

There will be **4 problem sets** designed to ensure that you understand basic analysis tools and are keeping up with the fundamental concepts. To keep your workload manageable and to allow you to focus on building the basic intuition, these checks are intended not to be overly difficult but may challenge you to adapt the concepts in complex settings. You are allowed to collaborate with other students registered this semester in the course. However, each student must submit their own assignment on bCourses. You have <u>unlimited attempts</u> until the deadline; the <u>latest score</u> (not the highest) will be kept.

| Problem Set | Topic(s) | Available | Due Date |
|-------------|-----------------|-------------------|---------------------|
| PS1 | Process | Wed 8/24 12:30PM | Fri 9/16 11:59PM |
| PS2 | Queue + Quality | Mon 9/12 12:30PM | Fri 9/30 1PM |
| PS3 | Inventory | Wed 10/5 12:30PM | Fri 10/28 11:59PM |
| PS4 | SCM + RM | Wed 10/19 12:30PM | Fri 11/11 11:59PM |

There will be **3 graded case assignments**. Prior to the case discussion, you may work with a small team of <u>up to FOUR</u> people to prepare your analysis and recommendations. Many cases will require you to thoughtfully apply the analysis tools that you have learned, while some will prepare you for new materials to be discussed during class. The instructions are

provided on bCourses (under *Files/Case Readings* and *Assignments*). You do not have to stick with the same team for all reports. You can also work individually. Since the cases will be discussed in class, the reports are due at 6PM one day before class.

• For at least three cases of your choice, you are expected to prepare a short case write-up (individually or up to four people). You can choose among the following cases: *National Cranberry Cooperative, Ritz-Carlton, Zara, Crocs,* and *Uber POOL Express*. If you submit more than 3 cases, the 3 highest scores will be kept.

Deadlines for case reports

| Case | Report Due | In-class Discussion |
|--------------------------------|---------------|---------------------|
| National Cranberry Cooperative | Tue 9/6 6PM | Wed 9/7 |
| Ritz-Carlton* | Sun 9/25 6PM | Mon 9/26 |
| Zara | Tue 10/18 6PM | Wed 10/19 |
| Crocs* | Tue 10/25 6PM | Wed 10/26 |
| Uber POOL Express* | Tue 11/8 6PM | Wed 11/9 |

^{*} denotes case with data analysis

Another required group assignment is **Littlefield Simulation**, which is an internet-accessed simulation that runs continuously for 3 days and 3 hours (75 hours total). In this simulation, you will work as a group of FOUR to manage (virtually) the operations of an organization. Each group will submit PowerPoint slides on their strategy and discuss them in class (instructions available on bCourses). The Littlefield simulation is time intensive, so you should plan to devote additional time to the course during the simulation. In addition, it is essential to do quality pre-work before the simulation begins; groups should plan to allocate time for this pre-work analysis accordingly. The grade will be determined by ((4%) in-class presentation, (5%) final report, and (5%) feedback from the industry partner.

Key dates for Littlefield Simulation

| Register your team of 4 on bCourses | Fri 10/21 at 11:59PM |
|-------------------------------------|----------------------|
| Access to simulation available | Mon 10/24 at 12:30PM |
| Simulation starts | Mon 10/31 at 2PM |
| Simulation ends | Thu 11/3 at 5PM |
| Submit 4-slide Strategy Deck | Sat 11/5 at 11:59PM |
| In-class debrief | Mon 11/7 |

<u>Final project</u> is a hands-on team assignment that will give you experience in identifying operational problems, collect appropriate data for analysis, apply some of the analysis tools learned in class, and to develop useful recommendation. You will work with a <u>group of FOUR</u> to choose a client (could be for-profit businesses, non-profit organizations, or other systems in operations) and submit a 1-page proposal describing the client, the problem(s)/challenge(s) faced by them, the data (to be collected), and your draft plan of analysis. The proposal is due on **Friday, November 11, 11:59PM**. Your project must contain (i) data analysis (proprietary and/or public), (ii) application of tools and concepts from at least four modules of the class

(process, queue, quality, inventory, SCM, and strategy), and (iii) actionable recommendations. Each team will present their work in class on **Monday, November 28** for 7 minutes each. The final report is due on **Sunday, December 4, 11:59PM**. The grade will be determined by (2%) a 1-page project proposal, (5%) an in-class presentation and slides, and (5%) a final report. Each team member is required to submit a self and team assessment, which could affect the individual grade for the project.

| Project Assignments/Events | Deadlines/Dates |
|--|-------------------|
| Register your team of 4 on bCourses | Sun 11/6 11:59PM |
| Submit 1-page proposal | Fri 11/11 11:59PM |
| Submit presentation slides | Sun 11/27 11:59PM |
| In-class presentation (7 minutes each) | Mon 11/28 |
| Submit final report + team assessment | Sun 12/4 11:59PM |

Late assignments are not accepted, even for partial credit. You must submit your assignments electronically via bCourses. Submitting group work requires that the students contributed roughly equally (a 60:40 split is acceptable; more unequal splits are not) to the assignment. Please make sure to include team members' names in the comment section.

<u>Midterm exam</u> will be in-class on **Monday, October 10, 2022**. The exam covers materials discussed through October 3, 2022 (including case discussions and guest lectures). You are allowed one two-sided letter-sized reference sheet and a basic calculator. No other materials or devices are allowed. Essential formulas and tables will be provided (which you will be able to see in advance; it will be posted to bCourses at least one week prior to the exam).

Final exam will be in-person on **Monday, December 12, 11:30AM-2:30PM** with emphasis on materials covered in October through December, but also including material of a more integrative nature. You will be responsible for details in the cases that point to and illustrate the course concepts (the purpose here is to have the exams reflect the class discussions, and to reward those who prepared for and participated in those discussions). In preparing for the exam, you should anticipate that the level of difficulty would be on par with the more difficult practice problems that are provided, with some exam questions at the level of the most difficult practice problems. You are allowed one two-sided letter-sized reference sheet and a basic calculator. No other materials or devices are allowed. Essential formulas and tables will be provided (which you will be able to see in advance; it will be posted to bCourses at least one week prior to the exam).

There are 5 sources of practice problems:

- (1) Problem sets
- (2) Discussion sessions on Fridays
- (3) Midterm exam
- (4) Practice final exam (available by the second to last week of instruction)
- (5) Questions in the optional textbook

Students who expect to have unusual difficulty taking the exam at the designated time should contact the instructor at least 10 days in advance. Executing and fully understanding the problem sets and practice problems and preparing the material for each class will be critical to performance on exams.

Academic Integrity

The Haas School of Business has a zero tolerance policy for academic dishonesty. In preparing for class or exams or in completing assignments, you may not benefit from notes, discussions with course participants, or any other material from any previous offering of this, or a similar, course. The Undergraduate Program has a Code of Ethics (https://haas.berkeley.edu/undergrad/academics/curriculum/degree-requirements/) that all undergraduate students are expected to adhere to.

It will be a violation of academic integrity if you base your assignments on solutions you have found on the Internet or which you have obtained from classmates in prior years. I reserve the right to fail you for the course if I become aware of such a violation.

U.C. Berkeley Academic Accommodations Policy: https://evcp.berkeley.edu/programs-resources/academic-accommodations-hub#accommodations

UC Berkeley is committed to creating a learning environment that meets the needs of its diverse student body including students with disabilities. If you anticipate or experience any barriers to learning in this course, please feel welcome to discuss your concerns with me.

If you have a disability, or think you may have a disability, you can work with the Disabled Students' Program (DSP) to request an official accommodation. The Disabled Students' Program (DSP) is the campus office responsible for authorizing disability-related academic accommodations, in cooperation with the students themselves and their instructors. You can find more information about DSP, including contact information and the application process here: dsp.berkeley.edu. If you have already been approved for accommodations through DSP, please meet with me so we can develop an implementation plan together."

Students who need academic accommodations or have questions about their accommodations should contact DSP, located at 260 César Chávez Student Center. Students may call 642-0518 (voice), 642-6376 (TTY), or e-mail dsp@berkelely.edu

Course Materials

bCourses will be the source for all class materials and assignments. Lecture slides, Course Reader (Study.Net), as well as discussion materials and additional materials, will be posted on bCourses. **You are required to purchase a Study.Net Course Reader.** The Course Reader includes the cases for our in-class discussion and assignments as well as access to the online Littlefield Simulation later in the course. It is available in an electronic form at

Study.Net/bCourses. All other readings will be handed out in class and/or posted to bCourses.

Discussion and assignment questions for each case will be posted on bCourses no later than one week prior to the case discussion. For each Friday Discussion session, an outline of the topics and problems that will be covered will be posted to bCourses by Thursday night; material presented in the session will be posted to bCourses by Friday night.

There is no required textbook. If you would like supplementary reading addressing the tools and concepts in the course, two optional books are recommended (both on reserve at Haas' Long Library and available electronically via Berkeley Library):

 Matching Supply with Demand ("MSD") by Gerard Cachon and Christian Terwiesch. McGraw-Hill, 4th Edition, 2019

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Modes of Communication

Email is generally an efficient means of communication to inform the teaching team of material you think may be of interest to the class (e.g., your work experience, or a link to a video or recent article), or to ask an administrative question that is personal and not addressed in the syllabus (most administrative issues are addressed in the syllabus, so please check first). **Make sure you put [UGBA141] in your email subject.**

We find that, as a mode of communication, email tends to be an inefficient way to resolve subtle questions about concepts or problems. The teaching team is happy (and, in fact, eager) to address any questions you may have of this type, but encourages you to ask in person (see our office hours) or via Discord, as this is much more efficient than the route of typing out lengthy emails and going back and forth. **We set up a Discord server for our class as our** *preferred* **communication channel to foster collaboration and centralize all questions and answers regarding the materials, logistics, and assignments.**

Expectations for Case Preparation

You should form study groups of three to four members for the purpose of discussing case studies and preparing assignments related to them. This group does not have to be the same as your Littlefield/Final Project group. This type of interaction increases learning, develops a sense of teamwork, and encourages good preparation for class discussion.

In a typical class session, one or more students will be asked to begin discussion of a selected topic. If you have thoroughly prepared the case and/or readings you should have no difficulty in handling such a leadoff request. Questions for each class session will be provided in advance to guide your thinking about the readings and cases. During case discussions, we will build a complete analysis of the case situation and address the problems

and issues it presents. You will be asked to make recommendations, and we will discuss the implementation of those recommendations.

Some of the criteria that we will use to judge effective class participation for grading purposes include:

- Is the participant a good listener?
- Are the comments relevant to the discussion? Are they linked to the comments of others?
- Do the comments show evidence of appropriate and insightful analysis of the case data?
- Is there a willingness to participate?
- Is there a willingness to test new ideas, or are all comments "safe"?
- Do comments clarify and highlight the important aspects of earlier comments and lead to a clearer statement of the concepts being covered?

Classroom Norms

We will follow the following classroom norms established by Haas:

- Tech-free: Keep phones in bags and on silent. **Refrain from using laptops**, unless for approved purposes. Tablets or other electronic note-taking devices are allowed, but should lie flat, be kept in airplane mode, and only used for note-taking in a manner that is not distracting or disruptive.
 - o If you violate this policy, you face, at a very minimum, a substantial penalization in the class participation portion of your grade; more substantial measures and grade penalizations can be applied at the discretion of the instructor. In some lectures, we will have "work with your neighbor" exercises. The use of electronics is allowed for the purpose of calculations during these exercises, which will be announced by the instructor.
- Prompt: Arrive on time at the beginning of class.
- Present: Do not leave class unless a personal emergency arises. For online sessions, please try to keep your camera on, raise hand when you would like to speak, mute when not speaking, and be respectful and constructive in the chat.
- Inclusive: Step up / step back in class discussions to ensure that a wide variety of voices, perspectives, and experiences are heard. Encourage your classmates to do the same.

Other Administrative Information

It will be difficult to receive a good grade in the course without regular attendance. It is also expected that you be prepared for every class. To help the instructor and GSI learn your

names as quickly as possible, we ask that you keep the same seat throughout the semester and say your name when asking questions in class.

Missing class: You should make every effort not to schedule conflicts (e.g., job interviews) during the time when the class meets. If it is impossible for you to do this, you should email the teaching team in advance that you are missing class. This should be a rare event. Your email should describe in one sentence the emergency / unavoidable conflict you face.

What to do if you miss class: If you must miss class, make sure you submit any assignment that is due on that day electronically on bCourses by the deadline. Notify the GSI of your absence. To catch up on the material, get the handouts from bCourses, get the notes from your classmates, and discuss the material with them. If after doing this you would like additional clarifications, please reach out to your GSI and then the instructor.

Group work is encouraged for purposes of general class preparation and for the written assignments. You should not, however, benefit from anyone who has already participated in a faculty-led discussion of the case at Haas or any other school, or from other materials, even if they are publicly available. Much of the value of preparing cases is in the process itself, even if your group ultimately selects a less-preferred alternative or approach. Plagiarism and other forms of cheating will not be tolerated.

UGBA 141: Production and Operations Management Course Outline (subject to changes)

| # | Date | Topic/Case (Textbook Readings) | Preparation/Assignment |
|----|--------|--|--|
| | | Part I: Process Analysis | |
| | | · | |
| L1 | W 8/24 | Process I: Introduction (MSD 2.2) | Submit pre-course survey Read <i>Mortgage Processing at Haas Bank</i> PS1 out |
| D1 | F 8/26 | Review basic statistics (mean, variance, sum of RVs), basic process, introduce Gantt Chart | |
| L2 | M 8/29 | Process II: Process Analysis Case: Pick-up Pizza (MSD 2.6, 3.1-3.5) | Read <i>Pick-up Pizza</i> |
| L3 | W 8/31 | Process III: Process Choice Case: Beleza Natural (MSD 2.6, 3.6) | Read <i>Beleza Natural</i> |
| D2 | F 9/2 | Review process analysis, choice, flow-dependent analysis | |
| | M 9/5 | Labor Day (No Class) | |
| L4 | W 9/7 | Process IV: Process Flows + Little's Law Case: National Cranberry Cooperative (MSD 2.3, 3.6, 4.2-4.3) | Submit National Cranberry Cooperative report (Tue 6PM) Read National Cranberry Cooperative |
| D3 | F 9/9 | Review inventory buildup + Little's Law | |
| | | Part II: Variability in Process | es |
| L5 | M 9/12 | Queue I: Variability + Queueing Theory Case: Rent The Runway (MSD 2.3, 9.1-9.6) | Read <i>Rent The Runway</i> PS2 out |
| L6 | W 9/14 | Queue II: Performance Metrics (MSD 10.2-10.4) | |
| D4 | F 9/16 | Review queueing theory | PS1 due 11:59PM |

| L7 | M 9/19 | Queue III: Managing Queues | |
|-----|------------------|--|---|
| | | Cupat Spacker #1 | |
| L8 | W 9/21 | Guest Speaker #1 Quality I: Quality Control | Practice Midterm available |
| | VV 3/21 | Quality i. Quality Control | Tractice Whateriff available |
| | | (MSD 7.1, 7.3-7.6) | |
| D5 | F 9/23 | Review quality control tools | |
| L9 | M 9/26 | Quality II: Service Quality | Submit <i>Ritz-Carlton</i> report |
| | | Case: <i>Ritz-Carlton</i> | (Sun 6PM) |
| | | (MSD 7.2, 7.7) | Read <i>Ritz-Carlton</i> |
| L10 | W 9/28 | Quality III: Lean Operations | Read <i>Toyota Production</i> |
| | 11 3/23 | Midterm Flash Review | System |
| | | | , |
| | | (MSD 8.1-8.5, 8.7-8.8) | |
| D6 | F 9/30 | Review for Midterm Exam | PS2 due 1PM |
| | | | _ |
| | M 10/3 | Midterm In-class: 11:10AM-12:2 | |
| | 10/3 | Materials up to L | |
| | | iviatorials up to E | io (Quality II) |
| | | | |
| | | Part II: Inventory and Supply Chain | Management |
| L11 | W 10/5 | Part II: Inventory and Supply Chain Inventory I: Newsvendor | Management PS3 out |
| L11 | W 10/5 | | |
| L11 | W 10/5 F 10/7 | Inventory I: Newsvendor | |
| | | Inventory I: Newsvendor (MSD 14.1-14.7) | |
| | | Inventory I: Newsvendor (MSD 14.1-14.7) Review Midterm Exam solution + newsvendor | PS3 out |
| | | Inventory I: Newsvendor (MSD 14.1-14.7) Review Midterm Exam solution + newsvendor Experiential Supply | PS3 out Chain Exercise |
| | | Inventory I: Newsvendor (MSD 14.1-14.7) Review Midterm Exam solution + newsvendor | PS3 out Chain Exercise Du Hall 7 th Floor |
| D7 | F 10/7 | Inventory I: Newsvendor (MSD 14.1-14.7) Review Midterm Exam solution + newsvendor Experiential Supply Spieker Forum, Cho | PS3 out Chain Exercise Ou Hall 7 th Floor |
| D7 | F 10/7 | Inventory I: Newsvendor (MSD 14.1-14.7) Review Midterm Exam solution + newsvendor Experiential Supply Spieker Forum, Cho | PS3 out Chain Exercise ou Hall 7 th Floor g laptop to class |
| D7 | F 10/7 M 10/10 | Inventory I: Newsvendor (MSD 14.1-14.7) Review Midterm Exam solution + newsvendor Experiential Supply Spieker Forum, Cho Assigned seats, brin Guest Spea | PS3 out Chain Exercise ou Hall 7 th Floor g laptop to class aker #2 |
| D7 | F 10/7 | Inventory I: Newsvendor (MSD 14.1-14.7) Review Midterm Exam solution + newsvendor Experiential Supply Spieker Forum, Choose Assigned seats, bring | PS3 out Chain Exercise ou Hall 7 th Floor g laptop to class aker #2 |
| D7 | F 10/7 M 10/10 | Inventory I: Newsvendor (MSD 14.1-14.7) Review Midterm Exam solution + newsvendor Experiential Supply Spieker Forum, Cho Assigned seats, brin Guest Speat | PS3 out Chain Exercise ou Hall 7 th Floor g laptop to class aker #2 |
| D7 | F 10/7 M 10/10 | Inventory I: Newsvendor (MSD 14.1-14.7) Review Midterm Exam solution + newsvendor Experiential Supply Spieker Forum, Cho Assigned seats, brin Guest Speat | PS3 out Chain Exercise ou Hall 7 th Floor g laptop to class aker #2 |
| D7 | F 10/7 M 10/10 | Inventory I: Newsvendor (MSD 14.1-14.7) Review Midterm Exam solution + newsvendor Experiential Supply Spieker Forum, Cho Assigned seats, brin Guest Speat | PS3 out Chain Exercise ou Hall 7 th Floor g laptop to class aker #2 |

| D8 | M 10/17 | Review inventory module | |
|---------------------|---|---|---|
| L15 | W 10/19 | SCM I: Risk-Pooling Case: Zara (MSD 17.1-17.3) | Submit <i>Zara</i> report (Tue 6PM) Read <i>Zara</i> PS4 out |
| D9 | F 10/21 | Review inventory + risk-pooling | Register Littlefield team on bCourses |
| L16 | M 10/24 | SCM II: E-Commerce Case: Amazon Littlefield Intro II (MSD 17.1-17.3) | Read <i>Amazon</i> Read <i>Littlefield Technologies</i> Access to Littlefield Simulation |
| L17 | W 10/26 | SCM III: Reactive + Resilient SCM Case: Crocs (MSD 15.1-15.4) | Submit <i>Crocs</i> report (Tue 6PM) Read <i>Crocs</i> |
| D10 | F 10/28 | Review E-Commerce + reactive/resilient SCM | PS3 due 11:59PM |
| L18 | M 10/31 | SCM IV: Revenue Management + Contracts | Littlefield starts at 2PM |
| | | L /N/S/) 18 1-18 3 19 3-19 5) | |
| X | W 11/2 | (MSD 18.1-18.3, 19.3-19.5) Littlefield Simulation (No Class) | Littlefield ends Thursday 5PM |
| X D11 | W 11/2 F 11/4 | (MSD 18.1-18.3, 19.3-19.5) Littlefield Simulation (No Class) Review revenue management + contracts | Littlefield ends Thursday 5PM Submit Littlefield Slides (Sat 11:59PM) |
| | | Littlefield Simulation (No Class) Review revenue management + | Submit Littlefield Slides (Sat 11:59PM) |
| | | Littlefield Simulation (No Class) Review revenue management + contracts | Submit Littlefield Slides (Sat 11:59PM) |
| D11 | F 11/4 | Littlefield Simulation (No Class) Review revenue management + contracts Part IV: Operations Strategetes Platform I: Economics + Operations | Submit Littlefield Slides (Sat 11:59PM) Register Project team on |
| D11 | F 11/4 M 11/7 | Littlefield Simulation (No Class) Review revenue management + contracts Part IV: Operations Strategory Platform I: Economics + Operations Littlefield Debrief Platform II: Experimentation | Submit Littlefield Slides (Sat 11:59PM) Register Project team on bCourses Submit Uber POOL Express report (Tue 6PM) |
| D11 L19 L20 | F 11/4 M 11/7 W 11/9 | Littlefield Simulation (No Class) Review revenue management + contracts Part IV: Operations Strateg Platform I: Economics + Operations Littlefield Debrief Platform II: Experimentation Case: Uber POOL Express | Submit Littlefield Slides (Sat 11:59PM) Register Project team on bCourses Submit Uber POOL Express report (Tue 6PM) Read Uber POOL Express Submit Project Proposal |
| D11 L19 L20 D12 | F 11/4 M 11/7 W 11/9 F 11/11 | Review revenue management + contracts Part IV: Operations Stratege Platform I: Economics + Operations Littlefield Debrief Platform II: Experimentation Case: Uber POOL Express Review platform concepts People I: Worker Empowerment Case: Tessei | Submit Littlefield Slides (Sat 11:59PM) Register Project team on bCourses Submit Uber POOL Express report (Tue 6PM) Read Uber POOL Express Submit Project Proposal PS4 due 11:59PM |
| D11 L19 L20 D12 L21 | F 11/4 M 11/7 W 11/9 F 11/11 M11/14 | Review revenue management + contracts Part IV: Operations Strategory Platform I: Economics + Operations Littlefield Debrief Platform II: Experimentation Case: Uber POOL Express Review platform concepts People I: Worker Empowerment Case: Tessei Guest Speaker #3 People II: Future of Work | Submit Littlefield Slides (Sat 11:59PM) Register Project team on bCourses Submit Uber POOL Express report (Tue 6PM) Read Uber POOL Express Submit Project Proposal PS4 due 11:59PM Read Tessei |

| | | Case: Starbucks | Practice Final available |
|-----|---------|--|--|
| | | Guest Speaker #4 | |
| | W 11/23 | Thanksgiving (No Class) | |
| L24 | M 11/28 | Project Presentation (7 minutes) | Submit Project Slides (Sun 11:59PM) |
| L25 | W 11/30 | Course Wrap-Up Final Flash Review | |
| D14 | F 12/2 | Review for Final Exam | Submit Project Report + Team Assessment (Su 11:59PM) |
| | M 12/12 | Final Exam In-class: 11:30AM-2:30PM Integrative of all course materials | |