



BAEP 557 - Technology Commercialization

TUE, 6:30p - 9:30p (JKP 212)

Units:	3
Professor:	Dr. Hovig Tchalian
Office:	JFF 520 (5th floor of Fertitta Hall)
Office Hours:	By appointment (please email 24 hrs in advance to help ensure a meeting slot)
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Course Description

How do you take a new technology to market? In BAEP 557, we will learn and apply a process for assessing the market and financial potential of a technology product or service. The course is aimed at technologies created within both established firms and startup settings. Among other aspects, we will address legal, financial, and go-to-market aspects of technology transfer and development.

Students in this course will identify and evaluate whether and how a technology has commercialization potential, translate the technology into potential business applications, and propose plans for commercialization. A critical component of the course is a team-based, hands-on, and 'live' (i.e., actual) project for a technology being launched commercially in partnership with a local organization

Class sessions will generally include two components, one in each half: class discussion of assigned readings and cases; and team-based work and guest presentations related to the commercialization project.

NOTE: This course is one of the required courses for the USC Marshall Certificate in Technology Commercialization. For more information about the Certificate Program, see http:// www.marshall.usc.edu/tccm

Learning Objectives

After successfully completing this course, students will be able to understand and apply the fundamental concepts, theories, principles, and practices employed in the commercialization of new technologies, including but not limited to:

1. Developing a strategic understanding of the commercialization process, the activities inherent in the process, and the related challenges and opportunities

2. Gaining direct, hands-on experience in solving common and difficult problems in all stages of the commercialization process

3. Developing critical thinking skills to formulate, frame, and justify solutions to tech commercialization challenges by completing and reporting on a semester-long team-based commercialization project

4. Developing adaptive skills by effectively articulating, critiquing, defending, and reformulating technology commercialization plans though team project discussions

5. Developing oral and written communication skills by learning to conduct an in-depth opportunity analysis, craft an effective commercialization plan, and deliver a persuasive business story

To achieve these objectives, we will use a combination of methods in the course – including lectures, readings and case studies, individual and team assignments, and visits from guest speakers

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Course Materials

There is no textbook for the course. Harvard cases and notes can be purchased at a discount using the following link: <u>https://hbsp.harvard.edu/import/1255081</u>.

Other readings are provided free of charge in BrightSpace or can be accessed via USC libraries (login, go to their website, type author last name and title of journal in search bar, article should come up with online access). If you haves any questions or need assistance with the BrightSpace Course Pages, please contact the Marshall HelpDesk at 213-740-3000 or HelpDesk@marshall.usc.edu.

You're also welcome to consult two useful optional sources (easy reads, especially the first):

- Bill Aulet, Disciplined Entrepreneurship (text + workbook)
- Alex Osterwalder, Business Model Generation (text + supplements)

You'll also be provided access to any relevant videos or exercises through BrightSpace and external sources. In most cases, I'll also post class slides or other content to BrightSpace (**BS**) for reference. These will not necessarily be comprehensive and are meant for your own personal use in supplementing any notes you take during class. Often, I'll post these only *after* the corresponding class session.

Students are responsible not only for this posted content but also the additional content presented within all class lectures, discussions, and activities. While you're encouraged to take independent notes when you feel the need, your primary goal should be to engage in and absorb in-class activities, discussions and experiences instead of trying to 'capture' everything – see grading policies, below.

Course Communications & Submissions

When contacting me, please use email (<u>tchalian@marshall.usc.edu</u> – quickest response) or our Slack channel (link to be provided – occasional response). Please *schedule an appointment in advance* (*preferably at least 24 hours*). I am happy to schedule a time to meet or talk over phone / Zoom.

Course submissions and announcements will be made through BS (BrightSpace.usc.edu) and sometimes in class or by email. Many of the emails I send will go directly through BS, and you will access and submit assignments there. *Please include your name(s) and page numbers on submissions*.

By default, BS uses your USC email address (<u>username@usc.edu</u>). It is therefore imperative that you *have a fully operational BrightSpace account linked to a current and correct email address*. If your USC email is not your primary, please make sure to forward it to the account you regularly check. **You are responsible for ensuring that messages do not bounce back due to your storage quota being full.**

Assignments, Deliverables & Grading Policies

To achieve an A or A- in this class, you will need to go well beyond the minimum requirements as stated in the syllabus in terms of the quality of your work and your involvement in and contribution to the class. An A is a sign of exceptional work and, much like the efforts of entrepreneurs, reflects the fact that you stood out from the crowd. **Historically, the "target" grade for required classes at the Marshall School has been 3.3.** This is *not a curve* but the *most likely* grade for the average student.

I will do my best to make my expectations for our different assignments clear and to evaluate them as fairly and objectively as I can. If you feel that an error has occurred in the grading of any assignment, you may, within one week of the date the assignment is returned to you, write me a memo (one page max.) in which you request that I re-evaluate the assignment. Attach the original assignment to the memo and explain fully and carefully why you think the assignment should be re-graded. *Be aware that the re-evaluation process can result in three types of grade adjustments: positive, none, or negative.*

Finally, if you have questions about your assignments during the semester, make an appointment to discuss your concerns. Please don't wait until the last minute or the end of the semester to do so.

Your overall class grade will be based on the following components and associated point totals:

In-class contribution and engagement	300 (individual)
BrightSpace case discussion posts and readings responses (≥8 total)	400 (individual)
Commercialization project prep / proposal	300 (team)
Commercialization project (supporting documents)	500 (team)
Commercialization project (slides + presentation)	300 (team)
Project self-evaluation and and teammates' evaluation of your contribution	200 (team)
TOTAL:	2000

Please be aware that **this is a hands-on, project-based course**, which means *you'll need to be involved, active, and engaged* in class activities and exercises, online discussions and assignments, and team-

based projects and deliverables. It isn't possible to simply 'get by' on effort, ability, or talent alone. This is also a *fun course* and meant to directly impact your personal passions and your professional options. So, in order to get the most out of the class, care, commit, and bring your best.

Course Components & Assignments

There are four major components, or assignment blocks, in our course: exercises; cases; a team project; and a reflection paper. All written assignments must be **Times New Roman, double-spaced, 1-inch margins**. *I'll only read up to the max number of pages*. Instructions will be distributed on BS, and deadlines are listed in the schedule at the end of this syllabus. Below are summary descriptions.

Course Readings, discussions, and quizzes / surveys: We are not using a textbook for this course. Instead, we will be reading material in advance of classes in the first 3/4 of the course, primarily cases and articles. All of them will be available for purchase on the Harvard site (Core Curriculum) or for download on BS. The materials align directly with our day's topic(s) and, usually, at least indirectly with a stage in your team commercialization project. *Rigorous and detailed preparation is critical*. I will be confirming that preparation by occasionally assigning a discussion, survey or a quiz before class.

Case responses / discussions: In order to fully engage in in-class case discussions, you need to be prepared. We will have both cases and articles to read. Each case will include a set of questions on a BS discussion thread for you to respond to. These are meant to start you thinking about aspects of the case and prime our in-class discussions. You need to prepare every case, though you don't need to respond to each and every question in the discussion – just one or a small handful that interest you and that haven't been extensively covered by other students. You'll also be asked to start a new conversation thread or contribute to an existing one. Additional details will be provided as BS instructions.

These conversation starters will be graded as satisfactory-unsatisfactory, if you respond to at least one question and post a new question or respond to another student's post. You will need to satisfactorily complete at least 10 total (new question + response) to get full credit. You will have at least 5 cases and 5 readings to satisfy the minimum. Short, generic, or missing responses will get reduced or no credit.

Commercialization project: Each of you will join a (semester-long) team about a third of the way through the class and together prepare a substantial analysis of a commercialization opportunity that will be detailed in class and on BS. The project will consist of several related deliverables outlined above, under Assignments, and culminating with a presentation to the local organization(s) and project sponsor(s).

Personal reflection paper + self-assessment: An individual assignment (*instructions to be provided*) completed at the end of the course. You will think back to activities and experiences in the course and reflect on these Qs: How has the course influenced your personal, professional or career goals? Have your thinking, attitudes, or motivations changed? What have been your most important learnings?

Course & Project Contribution

This class is treated like a business meeting. Our motto is: *"treat each other as you would a customer."* Therefore, tardiness and absences without notice are not acceptable. If you had a customer meeting, you'd be expected to be on time. If you couldn't be on time, you'd call well in advance. Similar etiquette is required in this course.

Your overall course grade will therefore include a substantial component for your overall contribution to the opportunity project and the class as a whole, through discussions, activities, and engagement. You'll be expected to:

- 1. Attend all classes, barring a personal or medical emergency. Attendance is critical and a *minimum requirement* of course contribution. We may discuss material in-class not found in the readings as well as conduct in-class exercises. If you miss a class, you are responsible for staying up-to-date on course content and assignments. Please download class slides from BS and check with classmates, our student assistant, or me regarding possible handouts and announcements;
- 2. Show up on time and stay until the end it is disruptive to your classmates' learning experience if you arrive late or leave early;
- 3. Complete all assigned projects;
- 4. **Contribute actively to teams and in classroom discussions and in-class activities**. Effective class contribution consists of analyzing, commenting, questioning, discussing, and building on others' ideas and perspectives. The ability to present one's ideas concisely and persuasively and to respond effectively to the ideas of others is a key entrepreneurial skill;
- 5. Make good use of students and guest presenters' time. Ask thoughtful questions after guest speaker and student presentations

Participation is evaluated based on your level of involvement in class discussions – both the quality (relevance and insightfulness) and quantity (frequency) of your participation, as outlined above, with a particular focus on the quality.

Our course contribution rubric appears below (and is reflected / repeated in Appendix B):

- Outstanding Contribution. Your contributions reflect considerable preparation; they are substantive and supported by logic and evidence. Your comments or questions create a springboard for discussion by providing an insight or synthesizing and building on what has already been said. The class learns from you when you speak; in your absence, discussions would suffer.
- *Excellent Contribution*. You come prepared with substantial comments. You demonstrate good insight and clear thinking. You are able to make some connection to what has been said in prior discussion. The class notices when you're not part of the discussion.
- *Good contribution*. You come prepared with a few relevant comments and / or questions. You pay attention to the ongoing discussion and add to it.
- *Minimal Contribution*. You participate occasionally but are unprepared. You rarely offer interesting insights into the discussion. It appears that you are not paying attention to what others are saying during discussion.
- *Barely Acceptable / No Contribution.* You say little or nothing in class. If you were not in the class, the discussion would not suffer.

At the end of the semester you will be asked to complete a team and self-assessment of project contribution. (See Appendix A.) I'll assign scores for individual student contributions to team projects,

based on my observations of the team's dynamics, my assessment of the project quality, and thoughtful consideration of the information provided through your peer evaluations and your own self-evaluation.

Assignment Submission & Late Policy

All assignments will be submitted on BS. Please consult assignment due dates in the class schedule and on BS. Our readings and assignments are aligned closely with course content and sequenced with content that preceded and follows them. So, everything we do is time-critical.

As a course policy, therefore, I will accept no late assignments. It is your responsibility to turn in all assignments (quizzes, case responses, project deliverables) on time. While we all have things come up once in a while, it is your responsibility to communicate (preferably well in advance) with me and your team if something unexpected happens. Some assignments (such as BS case discussion posts) have a built-in buffer (more cases / readings than required responses). Regardless, our standard rule for late assignments is one excused late submission per semester, subject to the advance communication rule.

ADDITIONAL INFORMATION:

Technology Use Policy

Laptop and Internet use is not permitted during academic or professional sessions unless otherwise stated by the professor and/or staff. Use of other personal communication devices, such as cell phones, is considered unprofessional and is not permitted during academic or professional sessions. **Bring your** *laptops along, in case we need them. But please keep them stored until (and if) we have to use them.*

ANY electronic devices (cell phones, iPads, other texting devices, laptops, I-pods) must be completely turned off during class time. Upon request, you must comply and put your device on the table in off mode and FACE DOWN. You might also be asked to deposit your devices in a designated area in the classroom. Your primary objective during class is to focus, contribute, and engage.

Videotaping faculty lectures is not permitted due to copyright infringement regulations. Audiotaping may be permitted if approved by the professor. Use of any recorded or distributed material is reserved exclusively for USC students registered in this class.

AI (Artificial Intelligence) Policy

In this course, I encourage you to use artificial intelligence (AI)-powered programs such as ChatGPT, Bard or Claude, to help you with assignments that indicate the permitted use of AI. You should also be aware that AI text generation tools may present incorrect information, biased responses, and incomplete analyses; thus they are not yet prepared to produce text that meets the standards of this course. To adhere to our university values, you must cite any AI-generated material (e.g., text, images, etc.) included or referenced in your work and provide the prompts used to generate the content. Using an AI tool to generate content without proper attribution will be treated as plagiarism and reported to the Office of Academic Integrity. Please review the instructions in each assignment for more details on how and when to use AI Generators for your submissions, if applicable.

Add / Drop Process

Most Marshall classes are open enrollment (R-clearance) through the Add deadline. If there is an open seat, students can add the class using Web Registration. If the class is full, students will need to continue checking the *Schedule of Classes* (classes.usc.edu) to see if a space becomes available. Students who do not attend the first two class sessions (for classes that meet twice per week) or the first class meeting (for classes that meet once per week) may be dropped from the course if they do not notify the instructor prior to their absence.

Retention of Assignments & Deliverables

Projects, assignments, and any and all graded work that comprised the course grade will be retained for one year after the end of the course *if* the graded work was not returned to the student. If I returned a graded paper to you, it is your responsibility to file it. Please keep copies of all submissions, regardless.

Grade Disputes

All grades assigned by faculty members are final. Students have the right to seek explanation, guidance, counsel and reasons for the assignment of a grade. Faculty may initiate a change in grade if there is an error in the calculation of a grade. Students may appeal a grade according to university policy as set forth in *SCampus*. A faculty member may not change a disputed grade outside the formal appeals process. In response to a disputed academic evaluation by an instructor, a student is entitled to two levels of appeal after review by the instructor: first to the chairperson of the department and then to the appropriate dean of the school. The full university policy can be found in *SCampus* under University Governance / Academic Policies at https://policy.usc.edu/scampus-part-c/.

Incomplete Grades

A mark of IN (incomplete) may be assigned when work is not completed because of a documented illness or other emergency that occurs after the 12 week of the semester (or the twelfth week equivalent for any course that is scheduled for less than 15 weeks).

An "emergency" is defined as a serious documented illness, or an unforeseen situation that is beyond the student's control, that prevents a student from completing the semester. Prior to the 12 week, the student still has the option of dropping the class. Arrangements for completing an IN must be initiated by the student and agreed to by the instructor prior to the final examination. If an Incomplete is assigned as the student's grade, the instructor is required to fill out an *Assignment of an Incomplete (IN) and Requirements for Completion* form which specifies to the student and to the department the work remaining to be done, the procedures for its completion, the grade in the course to date, and the weight to be assigned to work remaining to be done when the final grade is computed. Both the instructor and student must sign the form with a copy of the form filed in the department. Class work to complete the course must be completed within one calendar year from the date the IN was assigned. The IN mark will be converted to an F grade should the course not be completed within the time allowed.

Lloyd Greif Center for Entrepreneurial Studies Confidentiality Policy

Throughout this class and related entrepreneurship activities and events, students will be exposed to proprietary information from other students, guest lecturers, and faculty. It is the policy of the Greif Center that *all such information is to be treated as proprietary and confidential*.

By enrolling in and taking part in Greif Center classes and activities, students agree not to disclose this information to any third parties without specific written permission from students, guest lecturers, or faculty, as applicable. Students further agree not to utilize any such proprietary information for their own personal commercial advantage or for the commercial advantage of any third party.

In addition, students agree that any legal or consulting advice provided without direct fee and in an academic setting will not be relied upon without the enlisted opinion of an outside attorney or consultant without affiliation to the Program.

Any breach of this policy may subject a student to academic integrity proceedings as described in the University of Southern California University Governance Policies and procedures as outlined in *SCampus* and to any remedies that may be available at law.

The Greif Center, the Marshall School of Business, and the University of Southern California disclaim any responsibility for the protection of intellectual property of students, guest lecturers or faculty who are involved in Greif Center classes or events. Receipt of this policy and registration in our classes are evidence that you understand this policy and will abide by it.

NOTE: You may also be asked to sign an **NDA (Non-Disclosure)** or **IP (Intellectual property) agreement** as part of this class, in order to ensure legal protections for the local organization(s) providing project materials.

USC Statement on Academic Conduct & Support Systems:

Academic Integrity:

The University of Southern California is a learning community committed to developing successful scholars and researchers dedicated to the pursuit of knowledge and the dissemination of ideas. Academic misconduct, which includes any act of dishonesty in the production or submission of academic work, compromises the integrity of the person who commits the act and can impugn the perceived integrity of the entire university community. It stands in opposition to the university's mission to research, educate, and contribute productively to our community and the world.

All students are expected to submit assignments that represent their own original work, and that have been prepared specifically for the course or section for which they have been submitted. You may not submit work written by others or "recycle" work prepared for other courses without obtaining written permission from the instructor(s).

Other violations of academic integrity include, but are not limited to, cheating, plagiarism, fabrication (e.g., falsifying data), collusion, knowingly assisting others in acts of academic dishonesty, and any act that gains or is intended to gain an unfair academic advantage.

The impact of academic dishonesty is far-reaching and is considered a serious offense against the university. All incidences of academic misconduct will be reported to the Office of Academic Integrity and could result in outcomes such as failure on the assignment, failure in the course, suspension, or even expulsion from the university.

For more information about academic integrity see <u>the student handbook</u> or the <u>Office of Academic</u> <u>Integrity's website</u>, and university policies on <u>Research and Scholarship Misconduct</u>.

Please ask your instructor if you are unsure what constitutes unauthorized assistance on an exam or assignment, or what information requires citation and/or attribution.

Students and Disability Accommodations:

USC welcomes students with disabilities into all of the University's educational programs. <u>The Office of</u> <u>Student Accessibility Services</u> (OSAS) is responsible for the determination of appropriate accommodations for students who encounter disability-related barriers. Once a student has completed the OSAS process (registration, initial appointment, and submitted documentation) and accommodations are determined to be reasonable and appropriate, a Letter of Accommodation (LOA) will be available to generate for each course. The LOA must be given to each course instructor by the student and followed up with a discussion. This should be done as early in the semester as possible as accommodations are not retroactive. More information can be found at <u>osas.usc.edu</u>. You may contact OSAS at (213) 740-0776 or via email at <u>osasfrontdesk@usc.edu</u>.

Support Systems:

Counseling and Mental Health - (213) 740-9355 – 24/7 on call

Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.

<u>988 Suicide and Crisis Lifeline</u> - 988 for both calls and text messages – 24/7 on call

The 988 Suicide and Crisis Lifeline (formerly known as the National Suicide Prevention Lifeline) provides free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week, across the United States. The Lifeline is comprised of a national network of over 200 local crisis centers, combining custom local care and resources with national standards and best practices. The new, shorter phone number makes it easier for people to remember and access mental health crisis services (though the previous 1 (800) 273-8255 number will continue to function indefinitely) and represents a continued commitment to those in crisis.

<u>Relationship and Sexual Violence Prevention Services (RSVP)</u> - (213) 740-9355(WELL) – 24/7 on call Free and confidential therapy services, workshops, and training for situations related to gender- and power-based harm (including sexual assault, intimate partner violence, and stalking).

Office for Equity, Equal Opportunity, and Title IX (EEO-TIX) - (213) 740-5086

Information about how to get help or help someone affected by harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants.

Reporting Incidents of Bias or Harassment - (213) 740-5086 or (213) 821-8298

Avenue to report incidents of bias, hate crimes, and microaggressions to the Office for Equity, Equal Opportunity, and Title for appropriate investigation, supportive measures, and response.

The Office of Student Accessibility Services (OSAS) - (213) 740-0776

OSAS ensures equal access for students with disabilities through providing academic accommodations and auxiliary aids in accordance with federal laws and university policy.

USC Campus Support and Intervention - (213) 740-0411

Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

Diversity, Equity and Inclusion - (213) 740-2101

Information on events, programs and training, the Provost's Diversity and Inclusion Council, Diversity Liaisons for each academic school, chronology, participation, and various resources for students.

<u>USC Emergency</u> - UPC: (213) 740-4321, HSC: (323) 442-1000 – 24/7 on call

Emergency assistance and avenue to report a crime. Latest updates regarding safety, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible.

<u>USC Department of Public Safety</u> - UPC: (213) 740-6000, HSC: (323) 442-1200 – 24/7 on call Non-emergency assistance or information.

Office of the Ombuds - (213) 821-9556 (UPC) / (323-442-0382 (HSC)

A safe and confidential place to share your USC-related issues with a University Ombuds who will work with you to explore options or paths to manage your concern.

Occupational Therapy Faculty Practice - (323) 442-2850 or otfp@med.usc.edu

Confidential Lifestyle Redesign services for USC students to support health promoting habits and routines that enhance quality of life and academic performance.

Open Expression and Respect for All

An important goal of the educational experience at USC Marshall is to be exposed to and discuss diverse, thought-provoking, and sometimes controversial ideas that challenge one's beliefs. In this course we will support the values articulated in the USC Marshall "<u>Open Expression Statement</u>" (<u>https://</u><u>www.marshall.usc.edu/open-expression-statement</u>).

APPENDIX A: Team Project Peer & Self-Evaluation

Each team member must complete this form along with the final team project. Please submit under the BS link *individually* and in confidence – all information will be treated as confidential.

Project Team Name:	
Team Member's Name:	

Instructions: All team members are asked to assess the relative contributions / efforts of all members of their team (including themselves) in order to reward excellence and avoid free-riding. Assessments weigh both the quality and quantity of contributions to different deliverables, positive contributions to team cohesiveness and energy, and overall engagement with the project. Please elaborate thoughtfully and in some detail on the rationale for each evaluation and add any comments at the end.

Here are the ratings you can select for each team member evaluation, including yourself:

5 – Outstanding: went far beyond the call of duty and made an exceptional contribution

4 – Excellent: made many major contributions to the project and always delivered

3 – Solid: was a competent contributor to the project throughout all of its phases

2 – Good: team player who usually (but not always) did his or her assigned part

1 – Barely acceptable: did the minimum to get through

0 - Unacceptable: did not do the work and / or was disruptive to the team

Team Member Name:	Rating:	Elaboration / Rationale:
1.		
2.		
3.		
4.		

Additional comments (if any):

APPENDIX B: Self-Assessment of Class Contribution

Each student must complete this form at the end of the course. Please submit under the BS link *individually*, filling out frankly by considering your contribution to the class and your own learning goals. I will consider your self-assessment along with my own assessment of your contribution (50 pts) and pair that portion of the score with your personal reflection essay (50 pts) in calculating the total score

Your Name:

Instructions: All students are asked to assess their relative contributions / efforts to their and their classmates learning in order to reward excellence and avoid free-riding. Assessments weigh both the quality and quantity of contributions to different discussions, positive contributions to classroom atmosphere and civility, and overall engagement with the learning process. Please elaborate thoughtfully and in some detail on the rationale for each evaluation and add any comments at the end.

Here are the ratings you can select for each self-evaluation criterion, which I will average across all 3:

5 – Outstanding [=100%]: You are in the top 5-10% of participating students, i.e., only a few other students in the class have participated more actively or equally actively. You have been well-prepared for every class discussion. Your comments and questions have been consistently insightful.

4 – *Excellent [=90%]*: You have tended to offer frequent comments or questions in every class. You have been well prepared for class discussions in nearly every class. If called on, you have been able to provide insightful, well-prepared comments.

3 - Good [=80%]: You have offered at least one comment or question in most classes and have often been well-prepared for discussions. If called on, you have been able to provide well-prepared comments. 2 - Minimal [=70%]: In general, you have spoken up only when called on but have occasionally offered a comment or question proactively. If called on, you have not always been able to provide well-prepared comments.

Self-Assessment Criteria:	Rating:	Elaboration / Rationale:
 Contribution to online & in- class discussions (readings + cases + guest speakers) 		
2. Contribution to positive classroom atmosphere & civility		
3. Contribution to overall engagement with learning process (of self + classmates)		

1 – *Barely acceptable* [=40%]: There are only a few other students in the class who have participated less actively. In general, you have spoken up only when called on and have not been prepared.

Additional comments (if any):

BS = BrightSpace; HBS = Harvard Cases; HBR = Harvard Business Review

NOTES:

- Most assignments (incl. surveys, discussion posts) are due by Monday before class, by 9pm
- Other than HBS cases (see HBS link above, p. 2), readings posted on BS (Readings > Wk #)
- Syllabus is **not meant to be definitive or comprehensive** and may be updated occasionally; check version date (upper right) for most recent version; **check BS for most up-to-date info**

Class	Topics	Readings & Advance Prep	Deliverables
1 (1.14)	Course Intro: Technology Ventures, Technology Strategy (NOTE: No class on 1. 14 — please read material & complete assignments; we'll cover content 1. 21)	- <i>Optional (intro to technology strategy)</i> : HBS Core Curriculum Reading: Yin, Pai-Ling, "Strategy Reading: Technology Strategy" (Secs. 1 + 2.1)	Take BS Pre-Class Survey: Post a narrative paragraph about yourself: (a) Who are you (major, year, career plans)? (b) Do you consider now a good time to launch a new venture? Why / why not? (c) What do you hope to get from this course? (Include background & interests related to tech commercialization.) [Complete by Wk 2: Tue@noon]
2 (1.21)	Technology S-Curve / Crossing the Chasm, Technology Transfer, Partner Organization	 HBS Core Curriculum Reading: Yin, Pai-Ling, "Strategy Reading: Technology Strategy" (Sec 2.2: "Managing Technology Risks" + "Identifying the Customer") "Crossing the Valley of Death" "Unlocking the Potential for Successful Technology Transfer" - Research & Development World 	 Pre-Class survey due Start posting to BS discussions for HBS core curriculum case reading starting this week, then continue for any additional weeks with core curriculum readings
3 (1.28)	Valuing Tech Innovations & Ventures	 Suster, M. (2016) "How to Decrease the Odds that Your Startup Fails" - Both sides of the Table HBR, "What Zomato's \$12B Valuation Says about Tech Companies" <i>Optional</i>: Damodaran, A. (2014) "Uber Isn't Worth \$17B" - FiveThirtyEight 	

4 (2.4)	Customer Discovery	 Case: Relativity Space "12 Tips for Early Customer Development Interviews" HBR, "How Twitter Applied the 'Jobs to Be Done' Approach to Strategy Steve Blank videos (links on BS — readings, 1 optional) 	 Post responses to Case Qs Team surveys due
5 (2.11)	Technology Adoption	 HBS Core Curriculum Reading: Yin, Pai-Ling, "Strategy Reading: Technology Strategy" (Sec 2.2: "Growth," first section [Achieve Adoption by Mainstream Customers]) Case: CV Ingenuity (A) "Great Mistakes in Technology Commercialization Optional: "Eager Sellers and Stony Buyers" 	 Post responses to Case Qs Respond to BS discussion about our week's HBS reading
6 (2.18)	Commercialization & Validation Strategies	 HBS Core Curriculum Reading: Yin, Pai-Ling, "Strategy Reading: Technology Strategy" (Sec 2.2: "Commercialization") Case: Alphabet Energy 	 Post responses to Case Qs Respond to BS discussion about our week's HBS reading Draft commercialization proposals (team —prelim research only)
7 (2.25)	Disruptive Strategy	Case: 3D Robotics	 Post responses to Case Qs Commercialization proposals (team)
8 (3.4)	Architecture Strategy: Platforms & Ecosystems	 HBS Core Curriculum Reading: Yin, Pai-Ling, "Strategy Reading: Technology Strategy" (Sec 2.2: "Growth," second section [Retain Competitive Advantage and Bargaining Power] + "Maturity") 	- Continue posting to BS discussions for HBS core curriculum case reading (especially if you haven't posted at least 5 times total)
9 (3.11)	Value Chain Strategy (NOTE: Spring Break next wk — 3.18)	 Halaburda, H. (June 2018) "Blockchain Revolution without the Blockchain?" - Communications of the ACM, 61:7, pp. 27-29 Case: FlyCoin 	
10 (3.25)	Licensing, IP Law	Optional: WIPO, "What Is Intellectual Property?"	

11 (4.1)	Growth & Incubation, Diversity in Technology Entrepreneurship (3/26) [Speaker: Kathryne Cooper]	Case: Kathryne Cooper & CTIP	Post responses to Case Qs
12 (4.8)	Fundraising	 "VCs Want to See Product- Market Fit - Here's How to Prove It" <i>Optional</i>: "IPO or M&A: How Venture Capital Shapes a Startup's Future" 	
13 (4.15)	Commercialization Projects: Mid-project presentations		
14 (4.22)	Careers in Technology: Conventional & Alternative; Review & Look Ahead to Final Presentations		
15 (4.29)	Wrap-Up: Final Presentations & Submissions		Present team commercialization projects (+ submit plan, self / team evals) [Time / Date TBD]