Course and Lecture Plan - INF350E – Spring 2020 - Blockchain and the Decentralized Economy

Course Landing Page Details

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Course Numbers
Professors
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Professor Biographies

Tom Serres Long Bio
Tom Serres Short Bio
Bettina Warburg Long Bio
Bettina Warburg Short Bio

Course Details

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Course Calendar
Course and Lecture Plan

INF350E – Spring 2020 - Blockchain and the Decentralized Economy

Assessment

Grading

Class Participation

Materials Presentations

Capstone Project

How to Excel (above and beyond requirements)

The Syllabus (Work in Progress)

Week 1 | Friday, January 24: Welcome to the Decentralized Economy!

Week 2 | Friday, January 31: Blockchain - It’s not that different from the Internet!

Week 3 | Friday, February 7: Blockchain 1.0, 2.0, and 3.0

Week 4 | Friday, February 14: Crypto-Assets & New Markets - Part 1

Week 5 | Friday, February 21: Crypto-Assets & New Markets - Part 2

Week 6 | Friday, February 28: Automating Business through Code

Week 7 | Friday, March 6: The Future of Supply Chains

Week 8 | Friday, March 13: Business in the Decentralized Economy - Part 1

Week 9 | Friday, March 20: Business in the Decentralized Economy - Part 2

Week 10 | Friday, March 27: DACs, DAOs, & the Future of Organizations

Week 11 | Friday, April 3: Blockchain Governance - Social & Technical Power

Week 12 | Friday, April 10: Regulation in the Decentralized Economy

Week 13 | Friday, April 17: Capstone Rehearsal

Week 14 | Friday, April 24: Capstone Rehearsal

Week 15 | Friday, May 1: Capstone Presentations

Week 16 | Friday, May 8: Capstone Presentations
Course Landing Page Details

Title
Special Topics in Information Science: Blockchain and the Decentralized Economy

Course Numbers
INF385T / INF350E

Professors
Bettina Warburg and Tom Serres

Room
UTA 1.208

Time
9:00am - 12:00pm

Days
Fri

Semester
Spring 2020

Topic Description
Blockchain and the Decentralized Economy

Prerequisites
350E – Upper division standing. No prerequisites required.
385T – Graduate level standing. No prerequisites required.
Email Addresses for Students

- Bettina Warburg: Bettina.Warburg@ischool.utexas.edu
- Tom Serres: Thomas.Serres@ischool.utexas.edu
- Natalie White (Executive Assistant for Tom and Bettina): natalie@animalventures.co

Description

Built on the back of a blockchain computing stack, this course will focus on topics and research key to the transition to a decentralized economy. We will cover the dynamics of emerging technologies, highlight new ideas from leading entrepreneurs and researchers shaping this future, and provide students with an opportunity to build their research into a product or startup. Students will use lean methodologies and anchor their approach in content covered through the course.

The course will meet each week for 3 hours over the semester, and sessions will consist of a combination of face-to-face meetings and online webinars (both synchronous and asynchronous). Sessions will include a mix of lecture-based content and discussion on selected topics, expert guest lectures, and product/startup building. At the end of the semester, students will be graded on their ability to pitch and present their startup idea, the relevant empirical research supporting their ideas, and a succinct business plan for taking their idea to market.

Notes

The shift towards a decentralized economy is in full swing. Emerging technologies like Blockchain, AI/ML, and IoT are combining to radically change the way we engage with the economy, and are forcing us to rethink our businesses and societal interactions. At the heart of this new economy, is a new blockchain-based computing stack, that allows not just humans, but machines to transact products, services, and information.

This course will take a practitioner’s approach to explaining these complex (and confusing) technologies, grounding our understanding in how they’re evolving, and why they’re paving the way for a future where machines represent a new consumer class: 50-billion devices armed with wallets and purchasing power. This future will transcend age-old models of commerce, supply chain, information management, finance, and governance to create something far more interesting: a distributed, transparent, and autonomous infrastructure for the decentralized exchange of value.

Throughout the course we will focus on topics and research key to the transition to a decentralized economy, hearing from leading entrepreneurs and researchers shaping these new opportunities. Topics will include an introduction to blockchain and its economic context, the technology stack of the decentralized economy, smart contracts,
specific networks (Bitcoin, Ethereum, Dfinity, etc.), business use cases, regulatory considerations, and more. To help students apply this knowledge, the course also provides students the opportunity to practice the art of building startup projects through lean methodologies, anchored in the topic of decentralization of trade. Progressing from individual research to user interviews, peer review, and eventually prototyping, students will gain valuable experience in taking an idea from inception to pitching.

Part “big idea course” on where information and economics combine, part “startup bootcamp,” students will come away with both a framework for thinking about the future, and a concrete final project that helps envisage that future.

Professor Biographies

Tom Serres Long Bio

Tom Serres is a Co-Founder and Managing Partner of Warburg-Serres Investments, an early stage venture capital fund focused on the decentralization of Trade and Blockchain Technology. He is a Co-Founder and Managing Partner of Animal Ventures, an investment advisory firm that builds and invests in tech startups, educates executives, and designs new ways for Fortune 500 companies to commercialize and leverage emergent technologies. These emergent opportunities include technologies such as Blockchain, Artificial Intelligence, Additive Manufacturing, and the Internet of Things. Animal Ventures has extensive experience in industries such as food, pharmaceuticals, healthcare, trucking, shipping, logistics, online marketplaces, and fin-tech in and around the broader world of supply chain activities.

Tom lectures each semester as an Adjunct Professor at the University of Texas School of Information in Austin, and is Co-Author of Asset Chains: The Cognitive, Friction-Free, and Blockchain-enabled Future of Supply Chains, as well as the new textbook, The Basics of Blockchain. He is an entrepreneur with experience and expertise in a wide variety of sectors.

Prior to his brief deployment at the Boston Consulting Group, Tom started his first company, Rally — the largest political fundraising platform in the United States. Rally garnered widespread attention for raising the largest online-only Series A funding round ever and was recognized as one of the most promising companies of 2013. While serving as Founder and CEO of Rally, Tom was named one of America’s Most Promising CEOs under 35 by Forbes.
Tom previously hosted a show called *Tech on Politics* which features interviews with some of the greatest minds in technology, media, venture capital, and government. Discussions rove over the convergences of technology, politics, and government.

Tom attended the University of Texas at Austin McCombs School of Business, and is an occasional writer and speaker on these topics; he and his work can be found in such diverse outlets as *Wired*, *CNN*, *Bloomberg*, and *CNBC*.

**Tom Serres Short Bio**

Tom Serres is a Co-Founder and Managing Partner of *Warburg-Serres Investments*, an early stage venture capital fund focused on the decentralization of trade and Blockchain Technology. He is a Co-Founder and Managing Partner of *Animal Ventures*, an investment advisory firm that builds and invests in tech startups, educates executives, and designs new ways for Fortune 500 companies to commercialize and leverage emergent technologies. He was previously founder and CEO of Rally, the largest political fundraising company in the United States, named one of America’s Most Promising CEOs under 35 by *Forbes*. Tom is an Adjunct Professor at the *University of Texas School of Information in Austin*, and previously hosted *Tech on Politics* a podcast where he interviewed some of the greatest minds in technology, media, venture capital, and government on tech and public policy. He is Co-Author of *Asset Chains: The Cognitive, Friction-Free, and Blockchain-enabled Future of Supply Chains* as well as *The Basics of Blockchain*, and attended the University of Texas McCombs School of Business in Austin.

**Bettina Warburg Long Bio**

Bettina Warburg is a Co-Founder and Managing Partner of *Warburg-Serres Investments*, an early stage venture capital fund focused on the decentralization of trade and Blockchain Technology. She is a Co-Founder and Managing Partner of *Animal Ventures*, an investment advisory firm that builds and invests in tech startups, educates executives, and designs new ways for Fortune 500 companies to commercialize and leverage emergent technologies. These emergent opportunities include technologies such as Blockchain, Artificial Intelligence, Additive Manufacturing, and the Internet of Things. Animal Ventures has extensive experience in industries such as food, pharmaceuticals, healthcare, trucking, shipping, logistics, online marketplaces, and fin-tech in and around the broader world of supply chain activities.

She is one of the first speakers at TED to unpack the topic of blockchain, and her talk, “*How the Blockchain will radically transform the economy,*” has been seen by
over 5 million people, making it the most viewed TED talk on the topic of Blockchain to date. Bettina’s collaboration with Wired Magazine to help explain Blockchain at 5 levels of difficulty has also been seen by over 2 Million people.

She was executive producer of a show called Tech on Politics which features interviews with some of the greatest minds in technology, media, venture capital, and government. Discussions rove over the convergence of technology, politics, and government.

Bettina lectures each semester as an Adjunct Professor at the University of Texas School of Information in Austin, and is co-author of Asset Chains: The Cognitive, Friction-free, and Blockchain enabled Future of Supply Chains, as well as the new textbook, The Basics of Blockchain. She has given talks at TED, Wired, IBM Think, VMWare, The Business Council, Credit Suisse Latin American Investment Conference, Smart Cities, Merck & Co’s Annual Technology Innovation Conference, The Skoll World Forum, Salzburg Global Seminar, San Francisco’s City Innovate Summit, and numerous other conferences and universities around the world. Bettina’s work has been cited in publications such as Wired Magazine, BBC News, The Atlantic, Center for Public Impact, ICMA.org, and the San Francisco Chronicle. Bettina received her MSc from Oxford University and BS from Georgetown University’s School of Foreign Service, and developed a keen interest in global governance and cultural diplomacy.

Bettina Warburg Short Bio

Bettina Warburg is a Co-Founder and Managing Partner of Warburg-Serres Investments, an early stage venture capital fund focused on the decentralization of Trade and Blockchain Technology. She is a Co-Founder and Managing Partner of Animal Ventures, an investment advisory firm that builds and invests in tech startups, educates executives, and designs new ways for Fortune 500 companies to commercialize and leverage emergent technologies. She is one of the first speakers at TED to unpack the topic of blockchain, and her talk, “How the Blockchain will radically transform the economy,” has been seen by over 5 million people, making it the most viewed TED talk on the topic of Blockchain to date. Bettina’s collaboration with Wired Magazine to help explain blockchain at 5 levels of difficulty has also been seen by over 2 Million people. Bettina is an Adjunct Professor at the University of Texas School of Information in Austin, co-author of Asset Chains: The Cognitive, Friction-free, and Blockchain enabled Future of Supply Chains, and was previously the executive producer of a show called Tech on Politics. Bettina is co-author of the new blockchain textbook, the Basics of Blockchain.

Course Details

Semester

Start: January 21
End: May 8

Course Days
Friday mornings 9am-12pm with a note that some sessions will be face-to-face and some will be virtual (either asynchronous or synchronous).

Course Calendar
*Guest lecturers awaiting confirmation and can shift depending on instructor schedule
Location can be face-to-face classes held in Austin or else online.

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Session Topic</th>
<th>Guest Lecturer*</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Friday, January 24</td>
<td>Welcome to the Decentralized Economy</td>
<td>None</td>
<td>TBD</td>
</tr>
<tr>
<td>2</td>
<td>Friday, January 31</td>
<td>Blockchain - It’s not that different from the Internet!</td>
<td>None</td>
<td>TBD</td>
</tr>
<tr>
<td>3</td>
<td>Friday, February 7</td>
<td>Blockchain 1.0, 2.0, and 3.0</td>
<td>None</td>
<td>TBD</td>
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<tr>
<td>4</td>
<td>Friday, February 14</td>
<td>Crypto-Assets &amp; New Markets - Part 1</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>5</td>
<td>Friday, February 21</td>
<td>Crypto-Assets &amp; New Markets - Part 2</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>6</td>
<td>Friday, February 28</td>
<td>Automating Business Through</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>Code</td>
<td>Date/Time</td>
<td>Title</td>
<td>(TBC)</td>
<td>Location</td>
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<tr>
<td>7</td>
<td>Friday, March 6</td>
<td>The Future of Supply Chains</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>8</td>
<td>Friday, March 13</td>
<td>Business in the Decentralized Economy - Part 1</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>9</td>
<td>Friday, March 20</td>
<td>Business in the Decentralized Economy - Part 2</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>10</td>
<td>Friday, March 27</td>
<td>DACs, DAOs, &amp; The Future of Organizations</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>11</td>
<td>Friday, April 3</td>
<td>Blockchain Governance - Social &amp; Technical Power</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>12</td>
<td>Friday, April 10</td>
<td>Regulation in the Decentralized Economy</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>13</td>
<td>Friday, April 17</td>
<td>Capstone Rehearsals</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>14</td>
<td>Friday, April 24</td>
<td>Capstone Rehearsals</td>
<td>(TBC)</td>
<td>TBD</td>
</tr>
<tr>
<td>15</td>
<td>Friday, May 1</td>
<td>Capstone</td>
<td>(TBC)</td>
<td>Austin</td>
</tr>
</tbody>
</table>
Assessment

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage of Course Grade</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Participation</td>
<td>30%</td>
<td>Throughout Course</td>
</tr>
<tr>
<td>Materials Presentations</td>
<td>20%</td>
<td>Weekly from January 24 through March 20</td>
</tr>
<tr>
<td>Capstone Project</td>
<td>50%</td>
<td>Final class, May 1/8</td>
</tr>
</tbody>
</table>

Grading
There is no midterm or final exam for this course. Grading will follow Texas School of Information recommendations (including A, A-, B+, and so on).

Class Participation
The class participation component of your final grade will be based on general attendance in classes (both virtual and face-to-face), the number and quality of questions asked during discussions and guest lectures, participation in class activities and presentations, and providing quality feedback to support your peers during and outside of instruction.

Materials Presentations
The materials presentation component of your final grade will be based on the slide materials you submit to the instructors each week, your preparedness to present during class, and ultimately the contents of each slide presentation. Slide materials should
include all evidentiary support related to your research topic of choice, and are assigned weekly from ~January 24 – March 20.

Capstone Project
Your capstone project is a culmination of work across the entire semester. It will be assessed in the following ways:

- Overall Presentation
- Quality of Research
- Quality of Business Strategy
- Quality of Prototype Design
- Creativity
- General Technical Comprehension
- Peer Assessment

The instructors and selected guest lecturers will judge Capstone Projects across a number of attributes, and will designate each presentation as one or more of the following:

- Best Overall
- Runner Up
- Best Research
- Best Business Plan
- Best Design and Prototype
- Most Creative
- Most Technically Advanced
- Peer Favorite

Presentations will be stack-ranked with the first and second place coming in as Best Overall and Runner Up. The other attributes will be assigned to each presentation, and will be factored into your overall grade at the end of the semester. For example, you might not win Best Overall presentation but you can receive Most Creative or Most Technically Advanced as another method to influence your grade at the end of the semester.

How to Excel (above and beyond requirements)
Entrepreneurs are resourceful and relentless. The blockchain community, at large, is comprised of numerous researchers and academic professionals who, by industry demand, were driven to become entrepreneurial. As you navigate this class you will see many who started as researchers grow into world-class entrepreneurs and business leaders. You should plan to build a network/community to support your effort inside and outside of the classroom. You should seek additional mentorship through other entrepreneurs, designers, researchers, and academics to support your project. You will
be one-part entrepreneur and one-part researcher. If you anticipate completing your project without assistance from external sources, you will likely not excel. Blockchain is non-competitive technology and ultimately a team sport. You can supplement your ranking in the class with the superlative awards mentioned above for your capstone project. The instructors of this course want students to learn through live experimentation, resourceful time management, relentless drive, and pragmatic hands-on learning.

The Syllabus *(Work in Progress)*

**Week 1 | Friday, January 24: Welcome to the Decentralized Economy!**

**Location:** TBD

**Learning Objectives:**

- Introductions
- Review the structure and workflow of the course overall and each session (Lecture & Discussion, Guest Lecturer & Discussion, Building)
- Discover the evolution of the Decentralized Economy through the story of trade (Douglass North / NIE)

**Pre-reading Resources:**

<table>
<thead>
<tr>
<th>Pre-read Topic</th>
<th>Pre-read Materials</th>
</tr>
</thead>
</table>
| Lecture        | Chapter 1: “Blockchain Fundamentals,” *Basics of Blockchain*
|                | Extra (Book): *Institutions, Institutional Change, and Economic Performance* - Chapters 1, 4, 5, 6 |
|                | Extra (Article): The blockchain revolution |
|                | Extra (Video): How the Blockchain will Radically Transform the Economy |
|                | Extra (Video): Vitalik Buterin explains Ethereum |
|                | Extra (Video): DEVCON1: Understanding the Ethereum Blockchain Protocol - Vitalik Buterin |
|                | Extra (Video): History of the Blockchain |
Lecture Description:

After introducing ourselves and the flow of the course, we will launch into our first framing topic for the course: the Decentralized Economy. Leaning on some of the pre-reading materials, we will cover the evolution of trade and trust from our early agrarian days, to formal institutions, to our current digital economy, and finally to the future of greater economic decentralization. This narrative grounding in our human history should help students begin to think about ways blockchain and new technologies will be challenging older models and opening up new opportunities.

Guest Lecturer: None

Build: Introduction to the Research and Discovery Phase

One of the fastest ways to learn about the decentralization of a given industry or professional activity is to identify an idea or research topic to pursue and begin researching, discovering, and building this new idea using iterative, lean startup-style tools. Together, we will talk through some of those tools and the process for preliminary research that students will use for the first 10 weeks of class.

Assignments for Next Session: Research and Discovery Phase

1. Identifying your build project for the semester.
   - Identify an industry or professional activity you’re familiar with, and develop a research and discovery plan to identify the elements that will be most impacted by the transition from our traditional digital economy to a decentralized economy.
   - Create 2-3 slides explaining why you chose this particular topic for your effort throughout the rest of the semester. Be prepared to present these slides in class the following week.

2. Beginning to develop a community and resource network locally.
Attend a blockchain-based meetup: Ethereum/Bitcoin, or local club on campus with the goal of getting to know 1-3 (non-class) attendees. We recommend doing this throughout the semester.

- Texas Blockchain Student Group
- Austin Ethereum Meetup
- Austin Blockchain Collective (monthly)
- Austin Blockchain Technology
- Austin Bitcoin Meetup

Week 2 | Friday, January 31: Blockchain - It’s not that different from the Internet!

**Location:** TBD

**Learning Objectives:**

- Dispel the hype of what blockchain is NOT and talk through definitions
- Introduce the basic framework of core, middleware, app layers of the blockchain tech stack and the comparison of a decentralized economy to our current digital economy
- Discuss whether we are headed for a multiprotocol or single-protocol world

**Pre-reading Resources:**

<table>
<thead>
<tr>
<th>Pre-read Topic</th>
<th>Pre-read Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>Chapter 2: “The Technology Behind Blockchain,” <em>Basics of Blockchain</em></td>
</tr>
<tr>
<td></td>
<td>Extra (Article): <em>OSI: The Internet That Wasn’t How TCP/IP eclipsed the Open Systems Interconnection standards to become the global protocol for computer networking</em></td>
</tr>
<tr>
<td></td>
<td>Extra (Article): <em>Rough Consensus and Running Code’ and the Internet-OSI Standards War</em></td>
</tr>
<tr>
<td></td>
<td>Extra (Video): <em>Protocol Wars</em></td>
</tr>
<tr>
<td>Guest Lecture</td>
<td>None</td>
</tr>
</tbody>
</table>
Lecture Description:

Having talked about the economic story leading to blockchain in our first session, we now dive into more of the technical trajectory toward decentralized technologies. If we think about the Internet as the core technology that brought about the modern digital economy we know and use every day, then blockchain is a similar core technology opening up the decentralized economy of the future. We will discuss simple waves of technology adoption from core infrastructure to middleware, and eventually applications. Following the analogy of the Internet will help us dispel some of the hype around blockchain and understand where we are in its development trajectory. We will also cover some of what blockchain is NOT, and how to use the progression up the technology stack as a framing for this course going forward.

Guest Lecturer: None

Build: Research & Discovery Review and Prepare for Week 3

- Students will present the industry or professional activity they chose, using 2-3 slides explaining why they chose this particular topic. The class will offer constructive feedback and ideas to help further each student’s pursuit.
- In preparation for your next assignment we will talk about user empathy and interviews. We will describe the upcoming assignment and think through good interview candidates and develop relevant initial questions.

Assignments for Next Session:

1. Performing user interviews for your build project.

Strong research into your given topic often begins with user empathy and general due diligence. This week you will expand your knowledge by interviewing key stakeholders in and around the industry topic you’ve chosen. The empirical research you gather will begin to help you build an argument and seed the kernel of an idea.

- Conduct interviews with at least 3 stakeholders on your topic.
- Catalog the data and information gathered from your interviews, and create 2-3 slides explaining who you talked to, what questions you asked, why you asked these questions, and formulate an initial opinion from your observations as to
how decentralized computing might impact their world. Be prepared to present these slides in class next week.

2. Preparing for our guest lecturer.

- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.

Week 3 | Friday, February 7: Blockchain 1.0, 2.0, and 3.0

Location: TBD

Learning Objectives:

- Introduce the evolution of blockchain from 1st gen, to 2nd and 3rd gen
- Introduce the difference between existing apps and new kinds of apps emerging from this tech stack

Pre-reading Resources:

<table>
<thead>
<tr>
<th>Pre-read Topic</th>
<th>Pre-read Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>(Article): Why Decentralization Matters</td>
</tr>
<tr>
<td></td>
<td>Extra (Paper): Bitcoin White Paper</td>
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<tr>
<td></td>
<td>Extra (Paper): Ethereum Yellow Paper</td>
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<tr>
<td></td>
<td>Extra (Video): Developer Network Demo</td>
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<tr>
<td></td>
<td>Extra (Video): Ten Minute DFINITY Presentation at Nasdaq</td>
</tr>
<tr>
<td>Guest Lecture</td>
<td>TBC</td>
</tr>
<tr>
<td>Build</td>
<td>Chapter 3: The Lean Startup</td>
</tr>
</tbody>
</table>
Lecture Description:
Since 2008, with the publication of the Bitcoin whitepaper, blockchain has been in the news. But what has happened to the technology in the last 10 years? In this session we will unpack what has changed about blockchain from Bitcoin to the Ethereum network, and now third-generation blockchains. This is largely a story about the rise of decentralized computing, and – in combination with our first two sessions – should help solidify our economic and technical understanding for why the decentralized economy is approaching. We will also start to dive into the application layer of this computing stack by thinking through 1) which kinds of apps will transition over to decentralized versions, and 2) which completely new business models and apps can be built using this new infrastructure.

Guest Lecturer: *Guest to be confirmed

Build: Research & Discovery Review and Prepare for Week 4

- Students will each present the data collected from their user interviews using 2-3 slides explaining who you talked to, what questions you asked, why you asked these questions, and the initial opinion from your observations as to how decentralized computing might impact their world. Each student will receive constructive feedback on their research from the rest of the class.
- We will discuss the upcoming assignment

Assignment for Next Session: Research and Discovery Phase

1. Soliciting peer review for your build project.

Distributed and decentralized computing brought about by advances in blockchain technology is still very nascent and scientifically driven. It’s important to understand where your research and budding idea sits in the overall evolution of this technology stack, and the maturity of the blockchain industry. Fleshing out an idea further can often require critical peer review to help sharpen and advance of your general idea.

- Identify at least 3 peers within this class, or elsewhere if preferred, and engage in a dialog with them to advance your idea. Obtain critical feedback on the idea, possible shortcomings, notable talking points that garner the greatest degree of interest, and overall feedback on the foundational components of what you’re choosing to pursue.
- Catalog the data and information gathered from your 3 peer reviews, and create 2-3 slides explaining who you talked to, what questions they asked, what they thought was most interesting, least interesting, where possible shortcomings
might exist, and overall feedback on the topic you’re choosing to pursue. Be prepared to present these slides in our upcoming class.

2. Preparing for our guest lecturer.

    - Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.

Week 4 | Friday, February 14: Crypto-Assets & New Markets - Part 1

Location: TBD

Learning Objectives:

- Introduce a taxonomy of crypto-assets: “currencies,” commodities, tokens, etc.
- Review the function of tokens in blockchain networks
- Introduce nuances of new assets and markets

Pre-reading Resources:

<table>
<thead>
<tr>
<th>Pre-read Topic</th>
<th>Pre-read Materials</th>
</tr>
</thead>
</table>
| Lecture        | Chapter 3: “Bitcoin and Crypto-assets,” *Basics of Blockchain*  
Extra (Article): The Anatomy of ERC721 - Understanding Non-Fungible Ethereum Tokens  
Extra (Video): Synthetic Assets |
| Guest Lecture  | TBC                |
| Build          | Chapter 4: *The Lean Startup*  
Extra (Video): Mike Maples Jr.: Dare to Do Legendary Things  
Extra (Website): Google Design Sprints  
Extra (Video): Steve Jobs "Marketing Is About Values" |
Lecture Description:

Fortnite, the gaming success story of the last few years, made $3 billion in revenue in 2018 selling virtual dance moves to players. But this is just the tip of the iceberg when it comes to the kinds of digital assets and potential for new markets now that blockchain enables digital uniqueness and verified transferability online. We will spend this class discussing the kinds of assets blockchain enables, from crypto-“currencies” to commodities, and utility tokens.

Guest Lecturer: *Guest to be confirmed*

Build: Research & Discovery Review, Preparation for Design Phase

- Students will present the data and information gathered from your 3 peer reviews, using 2-3 slides explaining who you talked to, what questions they asked, what they thought was most interesting, least interesting, where possible shortcomings might exist, and overall feedback on the topic you’re choosing to pursue.
- We will discuss moving into the design phase of our projects by introducing the idea of storyboarding. Storyboarding is an important skill for design, and we will review this tool as well as expectations for the upcoming assignment. In preparation for your storyboarding we will do some in-class activities, such as exercises that turn your idea into a blockbuster movie title, establish a brand, and develop a tagline.

Assignments for Next Session: Design Phase

1. Storyboarding your build project.

By now you should have the kernel of an idea swirling around in your head, and you should have obtained important and critical feedback from your peers and various other industry experts on your topic. Now, it’s time to build a narrative and a storyboard around what you’re interested in pursuing.

- Step out of the weeds a bit and create a storyboard around your idea. This can be done in any mixed media form that you choose. Create a podcast audio story, a keynote or powerpoint presentation, a video, a poster board, an infographic, a drawing, or any other form of media you think will help creatively communicate your idea. The key here is that you should be able to simply, but effectively, communicate your big idea is less than 5 minutes.
- Your storyboard should be based on everything you’ve learned and gathered thus far. Be prepared to present your mixed media storyboard in class the following week.

2. Preparing for our guest lecturer.

- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 5 | Friday, February 21: Crypto-Assets & New Markets - Part 2

Location: TBD

Learning Objectives:

- Continue discussion of the taxonomy of crypto-assets: “currencies,” commodities, tokens, etc.
- Review the function of tokens in blockchain networks
- Continue discussion of nuances of new assets and markets

Pre-reading Resources:

<table>
<thead>
<tr>
<th>Pre-read Topic</th>
<th>Pre-read Materials</th>
</tr>
</thead>
</table>
| Lecture        | Chapter 4: “Ethereum and Smart Contracts,” *Basics of Blockchain*  
|                | Extra (Article): *The Anatomy of ERC721 - Understanding Non-Fungible Ethereum Tokens*  
|                | Extra (Video): *Synthetic Assets* |
| Guest Lecture  | TBC                 |
| Build          | Chapter 5: *The Lean Startup*  
|                | Extra (Video): *Don Valentine, Sequoia Capital: "Target Big Markets"*  
|                | Extra (Article): *Why “Uber for X” startups failed: The supply side is king* |

Lecture Description:

Fortnite, the gaming success story of the last few years, made $3 billion in revenue in 2018 selling virtual dance moves to players. But this is just the tip of the iceberg when it comes to the kinds of digital assets and potential for new markets now that blockchain enables digital uniqueness and verified transferability online. We will spend this class discussing the kinds of assets blockchain enables, from crypto-“currencies” to commodities, and utility tokens. This is part 2 in our conversation about crypto-assets and new markets.

Guest Lecturer: *Guest to be confirmed*
Build: Design Work Review and Preparation for Next Class

- Students will each present their storyboards in under 5 minutes and solicit valuable feedback on their design work
- We will discuss the relevance of vision, mission, hypothesis and market for a startup in preparation for the coming week’s work

Assignments for Next Session: Design Phase

1. Building the business case for your build project.

Now that you have your storyboard, it’s time to begin building your pitch deck. We’ll begin first with Mission, Vision, Problem Statement, Hypothesis, and Target Market.

- Create 3-5 slides highlighting each of the stated objectives, and be prepared to present in the upcoming class the following week.
- In 3-5 sentences or less, articulate the big idea (vision)
- In 3-5 sentences or less, articulate the path to victory (mission)
- In 3-5 sentences or less, articulate the hypothesis for your idea (If this, then that)
- In 3-5 sentences or less, articulate the target market for your idea (who is this for)
- In 3-5 sentences or less, articulate the problem you are attempting to solve, why your target market will want this problem solved, and how your hypothesis ties back into solving this problem.

2. Preparing for our guest lecturer.

- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 6 | Friday, February 28: Automating Business through Code

Location: TBD

Learning Objectives:

- Discuss what it means to automate business in the future
- Smart contracts as simple automation
- Discuss the idea of autonomous, persistent software applications

Pre-reading Resources:

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<tr>
<th>Pre-read Topic</th>
<th>Pre-read Materials</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>(Article) What’s a Smart Contract and How Does It Work?</td>
</tr>
<tr>
<td>Guest Lecture</td>
<td>TBC</td>
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<tr>
<td>Build</td>
<td>Chapter 6: The Lean Startup</td>
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<td></td>
<td>Extra (Video): Testing and Metrics are Imperative</td>
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</table>

Lecture Description:

Applications and software can often be boiled down to a series of transactions and conditions. Sometimes those activities lead to a product, and other times they lead to a service. In both cases, there are ways of simplifying and even automating business activities as we begin to integrate emerging technologies. While this isn’t a session on how robots will take over our lives, it is a practical immersion in the how and why blockchain-based automation is increasingly intersecting with devices, robots, and algorithms. This topic also opens up major questions about ethics and governance – who builds these tools, and what happens when things go wrong?

Guest Lecturer: *Guest to be confirmed*
Build: Design Work Review and Preparation for Next Week

- Students will present their mission, vision, etc. and solicit feedback and input from the class
- We will discuss product experience and prepare for our upcoming assignment

Assignments for Next Session: Design Phase

1. Developing a user experience for your product/project.

Now that you have your first set of opening slides, it’s time to research some new design parameters by further researching the product experience and who the ultimate user will be. You will accomplish this by going back to some of the initial stakeholders you originally spoke to, and perhaps some new ones to begin designing your ultimate product experience.

- Build a database or spreadsheet of minimum viable requirements that will allow you to test your hypothesis through the eventual creation of a minimum viable product. What must your idea accomplish in order to validate your idea, and what micro-experiments can your idea be designed around such that usage will provide you with new insights and new data to validate through iterations?
- Conduct follow up interviews and gather feedback from critical stakeholders. Share with them what you’ve accomplished thus far, and gather feedback on how this idea might be accomplished.
- Gather requirements that will build into a set of product features for you to build a minimal viable product for you to run product experiments to test your hypothesis.
- Data gathered during this phase of your project should be targeted and anchored in experiment design so that you can begin building a minimum viable product during week 8 of this project.

2. Preparing for our guest lecturer.

- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 7 | Friday, March 6: The Future of Supply Chains

**Location:** TBD

**Learning Objectives:**

- Dive deeper into supply chains to better understand how transacting both digital and physical things will change
- Look at specific industries using blockchain for supply chain projects
- Discuss the connection points between the physical and digital worlds (oracles, etc.)

**Pre-reading Resources:**

<table>
<thead>
<tr>
<th>Pre-read Topic</th>
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</tr>
</thead>
</table>
| Lecture        | Extra (Paper): *Asset Chains: The Cognitive, Friction-Free, and Blockchain-enabled Future of Supply Chains*  
                 | Extra (Article): China hacked HPE, IBM and then attacked clients  
                 | Extra (Article): *The Next Economic Growth Engine Scaling Fourth Industrial Revolution Technologies in Production* |
| Guest Lecture  | TBC                |
| Build          | Extra (Video): *Product Management as CEO Training*  
                 | Extra (Article): *The Third Answer: How Market-Creating Innovation Drives Economic Growth and Development* |

**Lecture Description:**

Supply chains are one of the areas we are seeing many new technologies combine – from 3D printing to augmented intelligence to blockchain. Understanding how and why multiple vendors might want to create a shared reality to collaborate helps us envision some new models of supply chain activity in the future.

**Guest Lecturer:** *Guest to be confirmed*
Build: Design Work Review and Preparation for Next Week

- Students will present their minimum viable product requirements and solicit feedback.
- We will spend class time talking about iteration and additional tools for tweaking a design and set of requirements.

Assignments for Next Session: Design Phase

1. Iterating on your project.
   - Continue previous week’s assignment by further tweaking your design and requirements
   - Solicit external advice and feedback from technical or other experts (e.g. at blockchain club meetups)

2. Preparing for our guest lecturer.
   - Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 8 | Friday, March 13: Business in the Decentralized Economy - Part 1

Location: TBD

Learning Objectives:

- What are various use cases for blockchain that open up new business opportunities?
- Review case studies from various industries currently experimenting with blockchain

Pre-reading Resources:

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<tr>
<th>Pre-read Topic</th>
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</thead>
</table>
| Lecture        | Chapter 5: “Project Management, Use Cases and Hyperledger," *Basics of Blockchain*  
Extra (Video): Introduction to Consensus |
| Guest Lecture  | TBC                |
| Build          | Chapter 7: *The Lean Startup*  
Chapter 8: *The Lean Startup*  
Extra (Video): Quick and Frequent Product Testing and Assessment |

Lecture Description:

Enterprises around the world – from major insurance companies to big pharma, to global shipping and logistics businesses – are all experimenting with blockchain and emerging technologies like IoT and AI to help automate many of their activities. In this session we will cover several case studies of businesses using blockchain to solve real use cases and prepare for the future. What are some of the reasons enterprises find blockchain so appealing? How will enterprises integrate blockchain in the long term? This will help prepare students for their own business idea development and startup pitching throughout the remainder of the course.
Guest Lecturer: *Guest to be confirmed*

Build: Design Work Review and Preparation for Next Class

- Students will review any tweaks made to their existing plan and solicit feedback
- We will discuss the idea of essentialism
- We will use a sketching exercise in class to help exemplify how you can move from requirements to product features and experience in preparation for the assignment.

Assignments for Next Session: Design Phase

1. Maximizing essentialism in your project design

It’s time to break out that sketch book. You don’t need to be an artist to sketch out an idea, but it is a good idea to begin sketching out how a user might interact with these requirements, use your application or tool, experience your experiment, and ultimately translate the requirements you’ve been gathering into product features to create your minimum viable product.

- Review your minimum viable requirements data set, and maximize them for essentialism. That is, what are the most essential requirements you’ve gathered?
- Stack-rank them by designating essential vs. non-essential, and organize them for use in the creation of a minimum viable product.
- Create 2-3 slides articulating what the requirements are, how you stack-ranked them and why, and identify which requirements will ultimately be included in your minimum viable product. Be prepared to present your slides in our upcoming class.

2. Preparing for our guest lecturer.

- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 9 | Friday, March 20: Business in the Decentralized Economy - Part 2

Location: TBD

Learning Objectives:

- What are various use cases for blockchain that open up new business opportunities?
- Review case studies from various industries currently experimenting with blockchain

Pre-reading Resources:

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<thead>
<tr>
<th>Pre-read Topic</th>
<th>Pre-read Materials</th>
</tr>
</thead>
</table>
| Lecture        | Chapter 5: “Project Management, Use Cases and Hyperledger," Basics of Blockchain  
Extra (Video): Introduction to Consensus |
| Guest Lecture  | TBC                 |
| Build          | Chapter 9: The Lean Startup |

Lecture Description:
Enterprises around the world – from major insurance companies to big pharma, to global shipping and logistics businesses – are all experimenting with blockchain and emerging technologies like IoT and AI to help automate many of their activities. In this session we will cover several case studies of businesses using blockchain to solve real use cases and prepare for the future. What are some of the reasons enterprises find blockchain so appealing? How will enterprises integrate blockchain in the long term? This will help prepare students for their own business idea development and startup pitching throughout the remainder of the course.

Guest Lecturer: *Guest to be confirmed
Build: Design Work Review and Preparation for Next Class

- Students will present their sketchwork and solicit feedback
- We will discuss continued iteration in preparation for the next week

Assignments for Next Session: Design Phase

1. Iterating on your design.

Iteration is key to improving your gathered requirements, and user feedback is key to iteration. During this week, you will spend some time with your stakeholders reviewing your minimal viable requirements presented in the previous week. Afterwards, you will gather key and critical feedback from these stakeholders. From there, you will reevaluate your requirements, and make any necessary changes.

- Review your minimal viable requirements with key stakeholders and iterate to improve.
- Modify your slides from the previous week, and be prepared to share your learnings with the class during our upcoming class.

2. Preparing for our guest lecturer.

- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 10 | Friday, March 27: DACs, DAOs, & the Future of Organizations

Location: TBD

Learning Objectives:

- Discuss what it means to move from automating software to automating organizations and businesses in the future
- Review the “nexus of contracts” idea from Ronald Coase
- Unpack “The DAO” case study

Pre-reading Resources:

<table>
<thead>
<tr>
<th>Pre-read Topic</th>
<th>Pre-read Materials</th>
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</thead>
</table>
| Lecture        | Extra (Paper): *The Nature of the Firm*  
Extra (Paper): SEC report on “The DAO”  
Extra (Video): Slock.it DAO demo at Devcon1: IoT + Blockchain  
Extra (Article): DAOs, DACs, DAs and More: An Incomplete Terminology Guide  
Extra (Article): CRITICAL UPDATE Re: DAO Vulnerability |
| Guest Lecture  | TBC                |
| Build          | Chapter 10: *The Lean Startup*  
Extra (Article): How To (Actually) Calculate CAC  
Extra (Video): The Customer Development Process. 2 Minutes to See Why  
Extra (Video): The Customer Development Process  
Extra (Video): The Lean Approach: Getting Out of the Building: Customer Development |

Lecture Description:
Business and organizations can often be boiled down to a series of transactions and roles. Sometimes those activities lead to a product, and other times they lead to a service. In both cases, there are ways of simplifying and even automating business activities as we begin to integrate emerging technologies. Can smart contracts and autonomous code replace or augment our organizations and businesses in new ways? This topic also opens up major questions about ethics and governance – who builds these tools, and what happens when things go wrong?

**Guest Lecturer:** *Guest to be confirmed*

**Build: Design Review and Preparation for Building an MVP**

- Students will present current product plan and tweaks made.
- We will begin to review what a Minimum Viable Product is and how to prepare for the upcoming week.
- We will perform some sample MVP-based exercises together as a class

**Assignments for Next Session: Building an MVP**

1. Building your project MVP for the next 5 weeks.

Now that you’ve identified your big idea, your target industry, your target market, the problem you are attempting to solve, and some general ideas on what you should build in order to solve the problem and test your hypothesis (including a testing framework to improve your hypothesis over time), it’s time to get your hands dirty. You will have 5 weeks to build a minimum viable product (however you see fit), a 10-15 slide venture pitch deck supporting your overall idea, and prepare for a demo competition at the end of the semester.

- To be a successful entrepreneur, you need to be both relentless and resourceful in your ways. Feel free to tap peers, friends, relatives, potential co-founders, teachers; any means necessary to get to your end goal of building a minimum viable product.
- Don’t forget to build the business case while you build the product idea. Your pitch to prospective investors is as important as the product is, if not more important. Winning capital commitments with effective storytelling will only get you further down the road to bringing your story to life and further validating your hypothesis.
- Create a venture pitch deck of 10-15 slides that shows a business case for your idea
- Create a 15 minute demo moment for pitching your idea in a competition
- Present to your peers and others on December 6th, 2019.
- Through the use of UI Kits, coding skills, clickable mockups tools (invision / figma), design tools, and etc. Create a minimum viable product.

2. Preparing for our guest lecturer.

- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 11 | Friday, April 3: Blockchain Governance - Social & Technical Power

**Location:** TBD

**Learning Objectives:**

- Discuss some of the hurdles in the governance of blockchains both on-chain and off-chain
- Discuss the risks inherent in these systems, and how different networks approach them
- Introduce how private and public networks try to address this

**Pre-reading Resources:**

<table>
<thead>
<tr>
<th>Pre-read Topic</th>
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</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>Video: Governance in Web2 vs. Governance in Web3 - Vlad Zamfir Web Summit 2018</td>
</tr>
<tr>
<td></td>
<td>Video: Vitalik Buterin Discusses On-Chain Governance</td>
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<tr>
<td></td>
<td>Extra (Article): Blockchain Governance 101</td>
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<td></td>
<td>Extra (Article): Blockchain Governance: Programming Our Future</td>
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<td></td>
<td>Extra (Article): My Intentions for Blockchain Governance</td>
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<tr>
<td>Guest Lecture</td>
<td>TBC</td>
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<tr>
<td>Build</td>
<td>Chapter 12: The Lean Startup</td>
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</tbody>
</table>

**Lecture Description:**

While blockchain enables many new efficiencies by creating shared reality, it also comes with governance and security hurdles. How do these systems get maintained, updated, and/or forked going forward? Where can math and cryptography substitute for human collaboration and coordination and where do they represent a poor fit? How are companies that leverage this technology dealing with governance challenges amongst themselves as they manage a shared non-competitive technological resource?
Guest Lecturer: *Guest to be confirmed*

Build: MVP Review and Preparation for Next Class

- Individual time to work with Tom/Bettina on your build.
- Students sign up for slots.

Assignments for Next Session:
1. Building your project MVP for the next 4 weeks
2. Preparing for our guest lecturer.

- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 12 | Friday, April 10: Regulation in the Decentralized Economy

Location: TBD

Learning Objectives:
- Discuss some of the hurdles in the regulation of blockchain and decentralized computing
- Introduce the battle surrounding delinking money from the nation state
- Introduce the concept of compliance innovation

Pre-reading Resources:

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<tr>
<th>Pre-read Topic</th>
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<tbody>
<tr>
<td>Lecture</td>
<td>Extra (Video): Cato Institute: The 26 Words That Created The Internet</td>
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<td></td>
<td>Extra (Article): 2018 Speech by Christine Lagarde on Central Banks and Digital Currency</td>
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<tr>
<td></td>
<td>Extra (Podcast): Episode 9: Pia mancini and Tom Serres Envision A Democracy Fit for the 21st Century</td>
</tr>
<tr>
<td>Guest Lecture</td>
<td>TBC</td>
</tr>
<tr>
<td>Build</td>
<td>Chapter 13: The Lean Startup</td>
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</table>

Lecture Description:
The idea that blockchain, and the computing stack it spawns, is largely unregulated today causes both panic and intrigue. On the one hand, enterprises prefer to see regulatory clarity around technologies before moving into full-scale adoption, in order to counter risk. On the other hand, much of the green territory opening up in the decentralized economy is already there for the taking – and early innovators know there is benefit to capturing value today since law is usually a lagging indicator compared to social adoption (e.g. think how quickly Airbnb or Uber were adopted before regulators started to catch up). In this session, we will explore some of the major regulatory challenges and draw insights from previous legal battles over open technological playing fields.
Guest Lecturer: *Guest to be confirmed

Build: MVP Review and Preparation for Next Class

- Individual time to work with Tom/Bettina on your build.
- Students sign up for slots.

Assignments for Next Session:
1. Building your project MVP for the next 3 weeks.
2. Preparing for our guest lecturer.

- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 13 | Friday, April 17: Capstone Rehearsal

**Location:** TBD

**Learning Objectives:** N/A

**Pre-reading Resources:**

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<td>Guest Lecture</td>
<td>TBC</td>
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<tr>
<td>Build</td>
<td>Chapter 14: <em>The Lean Startup</em></td>
</tr>
</tbody>
</table>

**Lecture Description:** None

**Guest Lecturer:** *Guest to be confirmed*

**Build: MVP Review and Preparation for Next Class**

- Individual time to work with Tom/Bettina on your build (on-campus)
- Students sign up for slots.

**Assignments for Next Session:**

1. Building your project MVP for the next 2 weeks.
2. Preparing for our guest lecturer.
- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 14 | Friday, April 24: Capstone Rehearsal

**Location:** TBD

**Learning Objectives:**

**Pre-reading Resources:**

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<tr>
<td>Lecture</td>
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<tr>
<td>Guest Lecture</td>
<td>TBC</td>
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<tr>
<td>Build</td>
<td>None</td>
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</tbody>
</table>

**Lecture Description:** None

**Guest Lecturer:** *Guest to be confirmed*

**Build: MVP Review and Preparation for Next Class**

- Individual time to work with Tom/Bettina on your build.
- Students sign up for slots.

**Assignments for Next Session:**

1. Building your project MVP for the last week.
2. Preparing for our guest lecturer.

- Review the bio of our upcoming guest lecturer and develop 3-4 questions to ask. Submit these to Tom & Bettina by Wednesday.
Week 15 | Friday, May 1: Capstone Presentations

**Location:** Austin

**Pre-reading Resources:**

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<td>Guest Lecture</td>
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<td>Build</td>
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**Lecture Description:** None

**Guest Lecturer:** TBC

**Build: Venture Pitching (2hours)**

- Students will each have a chance to pitch their project and receive meaningful feedback as well as some winning prizes.
Week 16 | Friday, May 8: Capstone Presentations

**Location:** Austin

**Pre-reading Resources:**

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<td>Lecture</td>
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<tr>
<td>Guest Lecture</td>
<td>TBC</td>
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<tr>
<td>Build</td>
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**Lecture Description:** None

**Guest Lecturer:** TBC

**Build: Venture Pitching (2hours)**

- Students will each have a chance to pitch their project and receive meaningful feedback as well as some winning prizes.