Class Syllabus: 4010 / 5010 Cosci.

Date	No	Description
Aug 29	01	Introduction to class
Aug 31	02	Economics of Blockchain and Intro to Go
Sep 5	03	Details of Programming in Go
Sep 7	04	Mining - what is it - how it works (Information for Assignment 2)
Sep 10	05	Go Interfaces and Go Weaknesses
Sep 12	06	Merkle Trees. What they can do and how we use them (Information for Assignment 3)
	07	Assignment 01 Due - Go
Sep 14	08	Transactions in Blocks
Sep 17	09	Smart Contracts and how they fit into a blockchain
Sep 19	10	Public / Private Keys and Signing
		Assignment 02 Due - Mining
Sep 24	11	Wallets and the in-Class coupon dApp
Sep 26	12	Economics of Software - Blockchain Economics
		Assignment 03 Due - Merkle Trees
Sep 28	13	Stocks / Bonds / ICOs / Raising Funds etc.
Oct 1	14	Blockchain and Accounting, Land Ownership, Titles, Signatures.
Oct 3	15	Introduction to Ethereum
		Assignment 04 Due - Transactions
Oct 5	16	Introduction to Solidity
Oct 8	17	ERC-20 Smart Contracts (Open-Zeppelin Library)
Oct 10	18	ERC-721 and other Smart Contracts (Crypto Kitties)

Date	No	Description
		Assignment 05 Due - Wallets
Oct 12	19	truffle and Ethereum - Your Successes are Finite, Failures are Forever
Oct 15	20	ICOs - 506(d), Wyoming Laws, Sub-Part-S - Raising Funds
Oct 17	21	What we have missed - Lecture on missing stuff for Midterm - Last Midterm Content
		Assignment 06 Due - Smart Contracts
Oct 19	22	Overview of a Distributed Application (dApp), HTML, CSS, ECMA-Script.
Oct 22	23	Our in-class dApp project
Oct 24	24	Solidity Contract for Our Project - Outline / Overview / Software Tests
Oct 26	25	Midterm Review
		Paper Due - "Economic Trends: Why Blockchain Matters to the World Economy"
Oct 29		Midterm Exam (Tentative Date)
Oct 31	00	Halloween Day - Fun / Dress-Up / and / Stories (Optional Class)
Nov 2	26	Advanced Security: zero-knowledge-proofs.
Nov 5	27	Advanced Security: distributed key generation.
Nov 7	28	Metamask - Setting up Ethereum Accounts - Get Ether
		Assignment 07 Due - Solidity & Truffle (ERC 20 Based Contrat)
Nov 9	29	Loading contracts - using web3
Nov 12	30	Testing with "mocha" v.s. testing with solidity.
Nov 14	31	Sharing Transcripts - Contract Overview
		Assignment 08 Due - Test web app / Makes calls to Contract
Nov 16	32	Testing web apps. More on testing.
Nov 19	33	Transaction timing - block timing - gas costs - work queues.

DateNoDescriptionNov 2134Thanksgiving Break - Probably have class this day.Assignment 09 Due - Transcripts Contract with Tests of Contract (true)Nov 23Thanksgiving Break - I don't think there is a lecture on this day.Nov 2635Advanced Security: what is 2fa, JWT, Diffie-Hellmen key exchange, RNov 2836Advanced Security: how to protect yourself.Assignment 10 Due - Web Front End to dApp pt1	
Assignment 09 Due - Transcripts Contract with Tests of Contract (true Nov 23 Thanksgiving Break - I don't think there is a lecture on this day. Nov 26 Advanced Security: what is 2fa, JWT, Diffie-Hellmen key exchange, R Nov 28 Advanced Security: how to protect yourself.	
Nov 23 Thanksgiving Break - I don't think there is a lecture on this day. Nov 26 35 Advanced Security: what is 2fa, JWT, Diffie-Hellmen key exchange, R Nov 28 36 Advanced Security: how to protect yourself.	
Nov 26 35 Advanced Security: what is 2fa, JWT, Diffie-Hellmen key exchange, R Nov 26 Advanced Security: how to protect yourself.	ffle)
Nov 28 Advanced Security: what is 2fa, JWT, Diffle-Hellmen key exchange, R Advanced Security: how to protect yourself.	
28 Advanced Security: now to protect yourself.	SA, EC
Assignment 10 Due - Web Front End to dApp pt1	
Nov 37 How to wealth is created	
Dec 3 Basics of Accounting - Enough to build a business and hire an account	ıtant.
Why blockchain is going to eradicate auditing of books.	
Dec 5 39 Makeup lecture - cover what we missed (or if I end up traveling).	
Dec 7 40 Makeup lecture - cover what we missed (or if I end up traveling).	
Assignment 11 Due - Web Front End to dApp pt2	
Dec 10 41 Finals Review	

Title IX – Duty to Report

The University of Wyoming faculty are committed to helping create a safe learning environment for all students and for the university as a whole. If you have experienced any form of gender or sex-based discrimination or harassment, including sexual assault, sexual harassment, relationship violence, or stalking, know that help and support are available. The University has staff members trained to support survivors in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, and more. The University strongly encourages all students to report any such incidents to the University. Please be aware that all University of Wyoming employees, including student staff, are required to report all Title IX related concerns to the Title IX Coordinator or their supervisor. This means that if you tell a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the University's Title IX Coordinator. UW's Title IX Coordinator is Jim Osborn (Manager of Investigations, Equal Opportunity Report and Response). He is located in Room 320 of the Bureau of Mines Building,

and can be reached via email at report-it@uwyo.edu or via phone at 766-5200 or 766-5228. For more information, go to: http://www.uwyo.edu/reportit/learn-more/faqs.html .