

Welcome to Internet History, Technology, and Security

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<http://www.dr-chuck.com/>
Twitter: @drchuck



<https://www.coursera.org/course/insidetheinternet>



Who Should Take This Course?

- Everyone (including your friends and family) !
- There is no math. There is no computer programming. Really.
- We talk about cool technical things but it is not a technical course.
- The purpose of this course is to explain things and make you think and reflect

What is the Course About?

- Oral history from Internet and Web innovators
 - Not just names and dates - real history is a bit messy
 - You will need to interpret and think critically
- How the Internet and Web function

Dr. Chuck...



North Quad
University of Michigan
Ann Arbor, MI, USA

2455 North Quad



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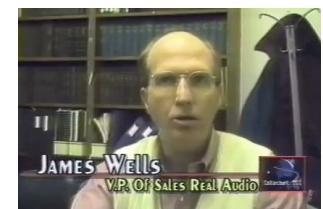


A screenshot of the official website for the University of Michigan School of Information. The header features the school's name and a red navigation bar with links like Home, About SI, Academics, Research, Careers, News & Events, Giving, and Alumni. A main banner on the right says 'UMSI to offer undergraduate degree'. Below the banner, there are sections for 'Events', 'Videos', and 'UMSI alumni awards'.

www.si.umich.edu



1995 - Internet:TCI
Charles Severance / Richard Wiggins
<https://vimeo.com/4275919>



00:52

IEEE Computer Magazine

- I write a monthly column for IEEE Computer magazine called "Computing Conversations"
- There is a video interview for each article
- IEEE Computer Society has given permission to use the articles for free in this course
- www.computer.org (Thanks!)

<http://www.computer.org/portal/web/computingnow/computing-conversations>



1996

The File menu allows you to select an existing lecture, create a new lecture or exit the program.

<http://www.syncomat.com/>

1999

Why Food?

- Food is an Interesting Topic
- Important Connection between food and productivity
- Although coffee is good too

FOOD **Productivity**

<http://www-personal.umich.edu/~csev/csev/projects/cb2k/index.htm>

1996

1999

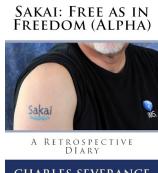
Sakai

Fifteen years later...

About the Course
The intent of this course is to introduce and then exit the programming. Literally anyone can and everyone should take this course. This course is for programmers and those not yet programming. Literally anyone can and everyone should take this course. The intent of technology is to network us all. Tools, devices, and access continue to increase. The way for that you can tell the source from anyone is to look at what they are doing. Technology is a product of society that was designed, engineered, and built over the past only years. To function in an information-based world, we need to understand the workings of selected technologies. This course will open up the Internet and show you how it is used. It will also show you how to use it. And in the end, you will learn every one of the resources who dominate the Internet and the technologies that are used by us.

[Course Audience](#)
[What You Will Learn](#)
[About the Course](#)
[Internet History, Technology, and Security](#)
[Charles Severance](#)
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Dr. Chuck
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SAKAI: FREE AS IN
FREEDOM (ALPHA)

A RETROSPECTIVE
DIARY

CHARLES SEVERANCE



Promoting Safe and Productive Automotive Technology

iPad Steering Wheel Mount

PRODUCT DEMONSTRATION

... the iPad Steering Wheel Mount is the "must-have" iPad accessory for anyone who spends significant time behind the wheel of an automobile. -- Stanley Milgram

The Apple iPad is the ideal automotive communications and entertainment device. The iPad is sized perfectly to mount using the iPad Steering Wheel Mount without obscuring the driver's view.



iPad Steering Wheel Mount

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Incase iPad Accessories

coursera

UNIVERSITY OF MICHIGAN

Internet History, Technology, and Security

Charles Severance

What is the Internet? How was it created? How does it work?

Workload: 3-5 hours/week

About the Course

The impact of technology and networks on our lives, culture, and society continues to increase. The very fact that you can take this course from anywhere in the world requires a technological infrastructure that was designed, engineered, and built over the past sixty years. To function in an information-centric world, we need to understand the workings of network technology. This course will open up the Internet and show you how it was created, who created it and how it works. Along the way we will meet many of the innovators who developed the Internet and Web technologies that we use today.

About the Instructor

Charles Severance
University of Michigan

Watch intro video

1,139 1.5k 6.2k

Tweet Like

Course Overview

About this Material

- This is part of a course at the University of Michigan School of Information
- SI502: Networked Computing: Storage, Communication, and Processing
 - www.pythondlearn.com - Lectures slides, audio, open book
 - Internet History, Technology, and Security is taught between chapters 11 and 12

Goal: Be an Introductory Course

- We need low-stakes "pre-requisite" courses in Coursera
 - How to behave
 - How to use the software
 - How to write
 - Learn to use MOOC software
 - How to learn from others and help others learn....

Be an Open Learning Community

- Open Source works well when there is a "Benevolent Dictator"
- There needs to be real and enforced rules - but as few as possible
- Those in power must not hide behind their power and must share their power with those who show the right behavior
- Must make valued behaviors "infectious" / "amplified"



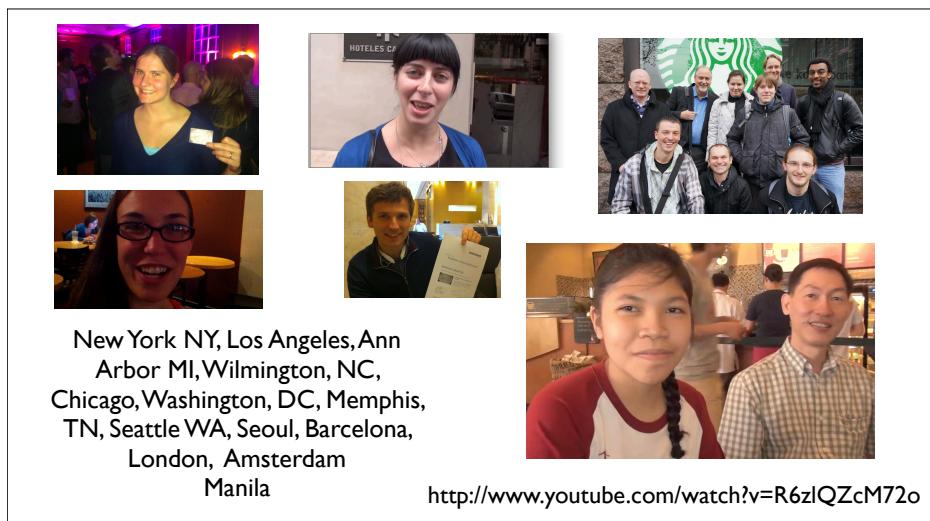
Lectures

- Lecture Notes - PDF / Print / PowerPoint
- My slides are CC-BY so you can use them in your own teaching
- Most of the videos are up on YouTube
- Some videos have IEEE Articles with them - these remain Copyright IEEE

Schedule Notes

- See the Syllabus for the course duration and topic outline
- I am expecting you to invest a minimum of 3-4 focused hours per week to watch lectures, think and reflect, and take assessments
- I want to make it so that folks can still join during the first two weeks and earn a certificate but
- At some point I will shut down new enrollment (archives are open)

	Latest Activity
Final Exam	
Peer Assessments	N/A
Video Lectures	
Resources Wiki (Editable)	N/A
Discussion Forums	
Instructor Page	
Help with Subtitles	
Course Wiki ↗	
Join a Meetup ↗	
↳ Instructor Support	
↳ I18N Editor	
Sub-forum	
General Discussion	
General discussion about the course, life and everything under the sun.	N/A
Lectures	
Questions / Comments / Discussion around the lectures and video materials	N/A
Discussing Peer Assignments and Other Writing	
This is a place to publish writing that either is a particularly good peer-graded answer or even additional mini-essays that expand on the material in the course.	N/A
Additional Resources	
If you find materials that help to support the lectures please share them here	N/A
Assignments	
Specific questions regarding the assignments.	N/A
Study Groups	
Find friends and arrange meet ups!	N/A
Instructional Staff Questions	
Vote up important questions. We will try to get these as time permits.	N/A
Platform Feedback	
Please use this to post technical problems with the content or software	N/A



Assessments

- The in-video questions do not count
- One quiz per week - mostly multiple-choice style questions that randomize and you can retake and keep the highest score (10 points)
- Final exam
- Peer graded writing assignments (10 points each) - Extra Credit

Peer Grading

- All peer-graded material is extra credit for the course - you do not have to participate in the peer graded assignments to earn a certificate
- Your peers *will* determine your grade on the assignments - no appeals
- Write your submissions with this in mind....

Course Scoring

- A course percentage above 75% will earn a certificate
- If you really want a certificate don't do the minimum to get to 75%
- There will be no individual arrangements / regrades / point appeals

$$\frac{\text{total_assn} + \text{exam} + \text{total_extra}}{\text{total_assn} + \text{exam}}$$
$$\frac{(7 * 10) + 30 + (3 * 10)}{(7 * 10) + 30}$$

Certificates

coursera
coursera.org

OCTOBER 13, 2012
Statement of Accomplishment

Student Name

HAS SUCCESSFULLY COMPLETED THE UNIVERSITY OF MICHIGAN'S ONLINE OFFERING OF
Internet History, Technology, and Security
This course examined how the Internet and World Wide Web came to be, starting from the emergence of electronic digital technology in World War II to the present day. This course also explored how the Internet was first built from July through October 2012.


CHARLES STEWART
CLINICAL ASSISTANT PROFESSOR
SCHOOL OF INFORMATION
UNIVERSITY OF MICHIGAN

PLEASE NOTE: THE CLOUD OFFERING OF THIS COURSE DOES NOT REFLECT THE BEFORE COURSE LAUNCH OFFER TO STUDENTS ENROLLED AT THE UNIVERSITY OF MICHIGAN. THE COURSE OFFERED ON THE CLOUD IS PROVIDED AS A SERVICE BY THE UNIVERSITY OF MICHIGAN AND IS NOT AFFILIATED WITH THE UNIVERSITY OF MICHIGAN IN ANY WAY. IT DOES NOT CONFER A UNIVERSITY OF MICHIGAN GRADE OR DEGREE. COURSE MATERIALS ARE PROVIDED BY COURSERA FOR NON-CREDIT COURSES. COURSERA IS A PRIVATE COMPANY AND IS NOT AFFILIATED WITH THE UNIVERSITY OF MICHIGAN.

<http://www.dr-chuck.com/csev-blog/2012/09/coursera-scores-and-certificates-with-distinction/>

Getting and Giving Help

- The answer to most questions like this will be "use the forums"
- With thousands of students in a class - other students will be the best source of answers (21 minute average response time in one course)
- Feel free to ask each other questions about the quizzes and the questions on the quizzes - the purpose of quizzes is to *learn* not to judge you

Plagiarism

- Plagiarism is about using material copied and pasted from sources without attribution and representing it as your own
- In this course it typically comes up on the peer-graded assignments
- Peer graders will take points off as follows (10 point assignment)
 - A portion of the answer was text from another source without attribution (-5)
 - The entire essay was taken from another source (-10)

Honor Code

- The final exam is to be taken according to the Honor Code:
- "You are agreeing to take this examination on your own, without asking anyone for help. You will not discuss the questions or your answers on this examination with anyone other than the course instructor or grader."
- I will try to be clear when I am applying the honor code in each assessment
- For quizzes, you should take the quiz without help, but you can discuss the questions in the forum.

Contacting Dr. Chuck

- It is not practical for me to interact individually with a class with thousands of students
- I and others will be monitoring the forums - if there is a problem and lots of students hit the same problem it will bubble up in the forums and get attention
- You can follow me on twitter @drchuck
- I may do Google Hangouts or mini-lectures if something pops up

Bring Your Friends!



- Watch the first week's lecture and if you like it - get your friends to join - the more the merrier and forming a study group will be easier!
- The first video from Bletchley Park is longer than most (25 minutes) - the rest will be shorter
- They should be able to earn a certificate (if that is what they are going for) adding during the first two weeks

The screenshot shows a Facebook group page. At the top, there are profile pictures of several users and a large Apple logo. Below the header, there are tabs for About, Events, Photos, Files, Notifications, and a search bar. A post from user Tan Lee Ling asks if they should use this group for the second iteration of IHTS, with two options: "I'm ok with that." and "No, there should be a new group for each iteration.", each with a count of +17. Another post from Charles Severance discusses creating a new group for each iteration. On the left sidebar, there are sections for Favorites (News Feed, Messages, Events, Photos, Find Friends), Ads (Ads Manager), Pages (Pythonlearn, The Aereo Foundation, Pages Feed, Like Pages), Groups (Internet Technology an..., Online Dr-Chuck: Python..., Create Group...), Apps (App Center, Gifts, Games Feed), Developer (wiscrowd, Create App...), and More. On the right sidebar, there are ads for liquidweb.com, Y U NO DEPLOY!, and All Things Fly Fishing.

The PythonLearn website homepage features a navigation bar with links for Book, Install, Free Course, Instructor, Python, and About. Below the navigation, a text block explains the goal of the site: "The goal of this site is to provide a set of materials in support of my [Python for Informatics: Exploring Information](#) book to allow you to learn Python on your own. This page serves as an outline of the materials to support the textbook." A section for "Find us on Facebook" shows a profile picture of a person with the name "Pythonlearn" and a "Like" button. At the bottom, there is a footer with the text "You and 372 others like Pythonlearn." and a link to "www.pythonlearn.com".

Please Help!

- Doing this is very cool but still evolving
- This is social - you are an important part of the learning
- It is as much about learning how to work together to learn at scale as it is about "History, Technology, and Security"
- Help each other learn the material and make suggestions for improvement

Copyright Thanks

- Thanks to IEEE Computer for permission to use IEEE Computer magazine articles associated with the videos
- Thanks to Richard Wiggins for the use of his video material
- Thanks to Dave Malicke and Open Michigan (open.umich.edu) for help with copyright review of these materials

Open Content

- My slides and my lecture videos (feel free to download and retain) are Creative Commons Attribution
- I encourage and am honored if you would reuse / remix in any way you like

The screenshot shows the Coursera course page for 'Internet History, Technology, and Security' offered by the University of Michigan. At the top, there's a navigation bar with links for Courses, Universities, About, and a user profile. Below the header, the course title 'Internet History, Technology, and Security' is displayed next to the University of Michigan logo. A large image of a prehistoric rock painting featuring several figures and symbols serves as the background for the course description. A button labeled 'Watch intro video' with a play icon is overlaid on the image. Below the image, the course description reads: 'What is the Internet? How was it created? How does it work?'. The workload is listed as '3-5 hours/week'. To the right of the description are three social sharing icons: 1,139 Twitter, 1.5k Reddit, and 6.2k Facebook. Under the course description, there are two sections: 'About the Course' and 'About the Instructor'. The 'About the Course' section contains a brief description of the course's purpose and historical context. The 'About the Instructor' section features a small profile picture of Charles Severance and his name.