



List of Computer Science courses with video lectures.

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Computer Science video courses

Introduction

List of Computer Science courses with video lectures.

- Please note:
 - Focus would be to keep the list to the point so that it is easy to browse. To access syllabus/notes/assignments, please visit link to the course or use Google search with course number/name.
 - Only MOOCs with comprehensive lecture material which cover a subject/topic in ample detail will be added. For example, MOOC on Computer Networks or Machine Learning with 3-4 hours may not be able to cover all topics in sufficient detail and thus should be avoided.
 - [NPTEL](#) contains large number of good Computer Science courses. To check courses by Indian IIT's, please refer npTEL site.

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Courses

Introduction to Computer Science

- [6.00SC - Introduction to Computer Science and Programming \(Spring 2011\) - MIT OCW](#)
 - [6.00 - Introduction to Computer Science and Programming \(Fall 2008\) - MIT OCW](#)
 - [6.01SC - Introduction to Electrical Engineering and Computer Science I - MIT OCW](#)
 - [6.001 - Structure and Interpretation of Computer Programs, MIT \(Textbook\)](#)
 - [CS 10 The Beauty & Joy of Computing, Spring 2015 - UCBerkeley](#)
 - [CS 50 - Introduction to Computer Science, Harvard University \(cs50.tv\)](#)
 - [CS 61A - Structure and Interpretation of Computer Programs \[Python\], UC Berkeley](#)
 - [SPD1 - Systematic Program Design \[Racket\], University of British Columbia](#)
 - [CS E-1 Understanding Computers and the Internet, Spring 2013 - Harvard Extension School \(Spring 2011\)](#)
 - [CSE 142 Computer Programming I \(C Programming\), Autumn 200 - University of Washington](#)
 - [CS1301 Intro to computing - Gatech](#)
 - [MOOC: Introduction to Computer Science - Udacity](#)
 - [CS 106A - Programming Methodology, Stanford University](#)
 - [CS 106B - Programming Abstractions, Stanford University](#)
 - [CS 107 - Programming Paradigms, Stanford University](#)
 - [Introduction to Programming with Arcade Games, Simpson College](#)
-

Data Structures and Algorithms

- [CS 61B - Data Structures, UC Berkeley](#)
 - [Fall 2006 - Prof. Jonathan Shewchuk](#)
 - [Spring 16 - Josh Hug](#)
- [MOOC - Design and Analysis of Algorithms Part 1 - Prof Roughgarden - Coursera \(Part 2\)](#)
- [MOOC - Algorithms Part 1 - Prof Sedgewick \(Part 2\)](#)
- [COP 3530 Data Structures and Algorithms, Prof Sahni, UFL \(Videos\)](#)
- [CS225 - Data Structures - University of Illinois at Urbana-Champaign](#)
- [CS2: Data Structures and Algorithms - Richard Buckland - UNSW](#)
- [6.006 - Introduction to Algorithms, MIT OCW](#)
- [CS 161 - Design and Analysis of Algorithms, Prof. Tim Roughgarden, Stanford University](#)
- [CSE 373 - Analysis of Algorithms, Stony Brook - Prof Skiena](#)
- [CS16 Introduction to Algorithms and Data Structures - Brown University](#)
- [6.046J - Introduction to Algorithms - Fall 2005, MIT OCW](#)
- [6.046 - Design and Analysis of Algorithms, Spring 2015 - MIT OCW](#)
- [CS 473: Algorithms - University of Illinois at Urbana-Champaign](#)
- [Programming Challenges - Prof Skiena](#)
- [16s-4102 - Algorithms, University of Virginia \(Youtube\)](#)
- [CS 170 Algorithms - Spring 2015 - UCBerkeley](#)
- [COP 5536 Advanced Data Structures, Prof Sahni - UFL \(Videos\)](#)
- [CS 261 - A Second Course in Algorithms, Stanford University \(Lectures\) \(Youtube\)](#)
- [CS 224 - Advanced Algorithms, Harvard University \(Lecture Videos\) \(Youtube\)](#)
- [ECS 122A - Algorithm Design and Analysis, UC Davis](#)
- [CSEP 521: Applied Algorithms, Winter 2013 - University of Washington \(Videos\)](#)
- [CS 6150 - Advanced Algorithms \(Fall 2016\), University of Utah](#)
- [ECS 222A - Graduate Level Algorithm Design and Analysis, UC Davis](#)

- [6.851 - Advanced Data Structures, MIT \(MIT OCW\)](#)
 - [6.854 - Advanced Algorithms, MIT \(Prof. Karger lectures\)](#)
 - [CS264 Beyond Worst-Case Analysis, Fall 2014 - Tim Roughgarden Lecture \(Youtube\)](#)
 - [CS364A Algorithmic Game Theory, Fall 2013 - Tim Roughgarden Lectures](#)
 - [CS364B Advanced Mechanism Design, Winter 2014 - Tim Roughgarden Lectures](#)
 - [Algorithms - Aduni](#)
 - [Advanced Topics in Algorithms and Datastructures - SS 2005 - Universität Freiburg](#)
 - [Algorithmentheorie/Algorithms Theory - WS 2013 - Universität Freiburg \(WS 2011\)](#)
 - [Theory I - SS 2010 - Universität Freiburg](#)
-

Systems Programming

- [6.033 Computer System Engineering - MIT](#)
 - [CS24 Introduction to Computing Systems - California Institute of Technology \(Spring 15 version\)](#)
 - [15-213 Introduction to Computer Systems, Fall 2015 - CMU](#)
 - [CS361 - COMPUTER SYSTEMS - UIC](#)
 - [CS124 Operating Systems - California Institute of Technology](#)
 - [Systems - Aduni](#)
 - [CS 162 - Operating Systems and Systems Programming, UC Berkeley \(Lectures - YouTube\)](#)
 - [CS 4414 - Operating Systems, University of Virginia](#)
 - [CSE 421/521 - Introduction to Operating Systems, SUNY University at Buffalo, NY - Spring 2016 \(Lectures - YouTube\) \(Recitations 2016\)](#)
 - [CS 377 Fall 16: Operating Systems - Umass OS](#)
 - [6.828: Operating System Engineering \[Fall 2014\]](#)
 - [CSEP 551 Operating Systems Autumn 2014 - University of Washington](#)
 - [CS194 Advanced Operating Systems Structures and Implementation, Spring 2013, UC Berkeley](#)
 - [CPCS 663 - Real-Time Systems: Video Material - TAMU](#)
 - [CS 251: Intermediate Software Design \(C++ version\)](#)
 - [CS 251 \(2015\): Intermediate Software Design](#)
 - [CSE 30341 - Spr 2008: Operating Systems](#)
 - [CSE 60641 - Fall 08: Graduate Operating Systems](#)
 - [6.172 Performance Engineering of Software Systems - MIT OCW](#)
 - [Software Engineering for Self Adaptive Systems - iTunes - HPI](#)
 - [Real-Time Systems - SS 2013 - Universität Freiburg](#)
 - [System Infrastructure For Data Science - WS 2012 - Universität Freiburg](#)
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Distributed Systems

- [VU:Distributed Systems: Principles and Paradigms by Maarten van Steen \(Fall 2012\), Vrije Universiteit, Amsterdam](#)
 - [CS 677 Spring 16: Distributed Operating Systems - Umass OS](#)
 - [CS 436: Distributed Computer Systems - U Waterloo](#)
 - [6.824: Distributed Systems, Spring 2015 - MIT](#)
 - [Distributed Algorithms, <https://canvas.instructure.com/courses/902299>](#)
 - [CS138 Distributed Computer Systems Spring 2016 - Brown University](#)
 - [CSEP 552: PMP Distributed Systems, Spring 2013 - University of Washington \(Videos\)](#)
 - [CSE 490H: Scalable Systems: Design, Implementation and Use of Large Scale Clusters, Autumn 2008 - University of Washington \(Videos\)](#)
 - [MOOC - Cloud Computing Concepts - UIUC](#)
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Database Systems

- [CS121 - Introduction to Relational Database Systems, Fall 2016 - Caltech](#)
 - [CS122 - Relational Database System Implementation, Winter 2014-2015 - Caltech](#)
 - [CS 5530 - Database Systems, Spring 2016, University of Utah](#)
 - [MOOC - Database Stanford Dbclass](#)
 - [CSEP 544, Database Management Systems, Au 2015 - University of Washington](#)
 - [CMPSC 431W Database Management Systems, Fall 2015 - PSU](#)
 - [Principles of Database Management, Bart Baesens](#)
 - [15-721 - Database Systems, CMU \(Lectures - YouTube\)](#)
 - [CS 186 - Database Systems, UC Berkeley, Spring 2015 \(Lectures- YouTube\)](#)
 - [CS 6530 - Graduate-level Database Systems, Fall 2016, University of Utah \(Lectures - YouTube\)](#)
 - [6.830/6.814: Database Systems \[Fall 2014\]](#)
 - [FIT9003 Database Systems Design, Rob Meredith, Monash University](#)
-

Object Oriented Design and Software Engineering

- [ECE 462 Object-Oriented Programming using C++ and Java - Purdue](#)
 - [Object-oriented Program Design and Software Engineering - Aduni](#)
 - [Object Oriented Systems Analysis and Design \(Systems Analysis and Design in a Changing World\)](#)
 - [Computer Science 169- Software Engineering - Spring 2015 - UC Berkeley](#)
 - [Introduction to Service Design and Engineering - University of Trento, Italy](#)
 - [OOSE: Software Dev Using UML and Java](#)
 - [CS 411 - Software Architecture Design, Bilkent University](#)
 - [CS 164 Software Engineering - Harvard](#)
 - [Model Driven Architecture - WS 2005 - Universität Freiburg](#)
 - [Software Design, Modelling and Analysis in UML - WS 2012 - Universität Freiburg](#)
 - [MOOC: Software Architecture & Design - Udacity](#)
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Artificial Intelligence

- [CS 188 - Introduction to Artificial Intelligence, UC Berkeley](#)
 - [6.034 Artificial Intelligence, MIT OCW](#)
 - [15-780: Graduate Artificial Intelligence, Spring 14, CMU](#)
 - [CSE 592 Applications of Artificial Intelligence, Winter 2003 - University of Washington](#)
 - [MOOC: Intro to Artificial Intelligence - Udacity](#)
 - [MOOC: Artificial Intelligence for Robotics - Udacity](#)
 - [Advanced AI Techniques - WS 2005 - Universität Freiburg \(WS 2004\)](#)
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Machine Learning

- **Introduction to Machine Learning**
 - [MOOC Machine Learning Andrew Ng - Coursera/Stanford \(Notes\)](#)
 - [MOOC - Statistical Learning, Stanford University](#)
 - [CS 156 - Learning from Data, Caltech](#)
 - [10-601 - Introduction to Machine Learning \(MS\), Carnegie Mellon University](#)
 - [10-701 - Introduction to Machine Learning \(PhD\) - Tom Mitchell, Spring 2011, Carnegie Mellon University \(Fall 2014\)](#)
 - [Microsoft Research - Machine Learning Course](#)
 - [CS 446 - Machine Learning, Fall 2016, UIUC\(Fall 2015 Lectures\)](#)
 - [undergraduate machine learning at UBC 2012, Nando de Freitas](#)
 - [CS 229 - Machine Learning - Stanford University](#)
 - [CS 189/289A Introduction to Machine Learning, Prof Jonathan Shewchuk - UC Berkeley](#)
 - [CS 5350/6350 - Machine Learning, Fall 2016, University of Utah](#)

- ECE 5984 Introduction to Machine Learning, Spring 2015 - Virginia Tech
- STA 4273H (Winter 2015): Large Scale Machine Learning
- CS 485/685 Machine Learning, Shai Ben-David, University of Waterloo
- Machine Learning and Data Mining - WS 2004 - Universität Freiburg
- **Data Mining**
 - CSEP 546, Data Mining - Pedro Domingos, Sp 2016 - University of Washington (YouTube)
 - CS 5140/6140 - Data Mining, Spring 2016, University of Utah (Youtube)
 - CS 5955/6955 - Data Mining, University of Utah (YouTube)
 - Statistical Aspects of Data Mining (Stats 202) - Google
 - MOOC - Text Mining and Analytics by ChengXiang Zhai
 - Information Retrieval SS 2014, iTunes - HPI
 - MOOC - Data Mining with Weka
 - CS 290 DataMining Lectures
 - CS246 - Mining Massive Data Sets, Winter 2016, Stanford University (YouTube)
- **Probabilistic Graphical Modeling**
 - MOOC: Probabilistic Graphical Models - Coursera
 - CS 6190 - Probabilistic Modeling, Spring 2016, University of Utah
 - 10-708 - Probabilistic Graphical Models, Carnegie Mellon University
 - Probabilistic Graphical Models, Daphne Koller, Stanford University
- **Deep Learning**
 - Deep learning at Oxford 2015 - Nando de Freitas
 - DS-GA 1008 - Deep Learning, New York University
 - Deep Learning, Stanford University
 - MOOC: Neural Networks for Machine Learning — Geoffrey Hinton 2016 - Coursera
 - Deep Learning - University of Waterloo
 - Neural networks class - Université de Sherbrooke (YouTube)
- **Advanced Machine Learning**
 - Machine Learning 2013 - Nando de Freitas, UBC
 - Machine Learning: 2014-2015, University of Oxford
 - 10-702/36-702 - Statistical Machine Learning - Larry Wasserman, Spring 2016, CMU (Spring 2015)
 - 10-715 Advanced Introduction to Machine Learning - CMU (YouTube)
- **Natural Language Processing and Computer Vision**
 - CS 224d - Deep Learning for Natural Language Processing, Stanford University (Lectures - Youtube)
 - CS 224N - Natural Language Processing, Stanford University
 - MOOC: Natural Language Processing, Dan Jurafsky & Chris Manning - Coursera
 - MOOC - Natural Language Processing - Coursera, University of Michigan
 - CS 231n - Convolutional Neural Networks for Visual Recognition, Stanford University
 - Machine Learning for Computer Vision - TUM
- **Misc Machine Learning Topics**
 - CS 6955 - Clustering, Spring 2015, University of Utah
 - Info 290 - Analyzing Big Data with Twitter, UC Berkeley school of information
 - 10-725 Convex Optimization: Spring 2015 - CMU
 - 10-801 Advanced Optimization and Randomized Algorithms
 - CS 229r - Algorithms for Big Data, Harvard University (Youtube)
 - CAM 383M - Statistical and Discrete Methods for Scientific Computing, University of Texas
 - Statistical Learning- Classification - University of Waterloo
 - 9.520 - Statistical Learning Theory and Applications, Fall 2015 - MIT
 - Reinforcement Learning - UCL
 - Regularization Methods for Machine Learning 2016 (YouTube)

- [CSE P 506 – Concurrency \(Spring 2011\) University of Washington \(Videos\)](#)
 - [CSEP 524 - Parallel Computation - University of Washington \(Videos\)](#)
 - [CS 282 \(2014\): Concurrent Java Network Programming in Android](#)
 - [Concurrency Theory and Practice - WS 2010 - Universität Freiburg](#)
-

Computer Networks

- [Prof. Shiv Kalyanaraman's Online Audio and Video Lectures on Computer Networking](#)
 - [Audio/Video Recordings and Podcasts of Professor Raj Jain's Lectures - Washington University in St. Louis \(YouTube\)](#)
 - [Computer Networks, Tanenbaum, Wetherall Computer Networks 5e - Video Lectures \(U Washington MOOC\)](#)
 - [CSEP 561: PMP Network Systems, Fall 2013 - University of Washington \(Videos\)](#)
 - [CSEP 561 – Network Systems, Autumn 2008 - University of Washington \(Videos\)](#)
 - [Introduction to Data Communications 2013, Steven Gordon - Thammasat University, Thailand](#)
 - [Communication Systems - SS 2008 - Universität Freiburg](#)
 - [Communication Systems \(Telecommunication from ISDN/GSM to VoIP\) - WS 2010 - Universität Freiburg](#)
 - [Internetworking - SS 2005 - Universität Freiburg](#)
 - [Mobile Computing - WS 2004 - Universität Freiburg](#)
 - [Network Algorithms - SS 2013 - Universität Freiburg](#)
 - [Telecommunication Systems - SS 2012 - Universität Freiburg](#)
 - [Wireless Sensor Networks - WS 2006 \(English\) - Universität Freiburg](#)
-

Mobile Applications Development

- [MOOC Programming Mobile Applications for Android Handheld Systems - University of Maryland](#)
 - [CS 193p - Developing Applications for iOS, Stanford University](#)
 - [CS S-76 Building Mobile Applications - Harvard](#)
 - [Android App Development for Beginners Playlist - thenewboston](#)
 - [Android Application Development Tutorials - thenewboston](#)
 - [MOOC: Developing Android Apps - Udacity](#)
 - [MOOC: Advanced Android App Development - Udacity](#)
 - [CSSE490 Android Development Rose-Hulman Winter 2010-2011, Dave Fisher](#)
 - [iOS Course, Dave Fisher](#)
-

Math for Computer Scientist

- [6.042J - Mathematics for Computer Science, Fall 2010, MIT OCW](#)
- [6.042J - Mathematics for Computer Science, Spring 15, MIT OCW](#)
- [Computer Science 70, 001 - Spring 2015](#)
- [6.041 Probabilistic Systems Analysis and Applied Probability - MIT OCW](#)
- [10-600 Math Background for ML - CMU](#)
- [Linear Algebra Review - CMU](#)
- [Statistics 110: Probability](#)
- [18.06 - Linear Algebra, Prof. Gilbert Strang, MIT OCW](#)
- [36-705 - Intermediate Statistics - Larry Wasserman, CMU](#)
- [MOOC: Statistical Inference - Coursera](#)
- [MOOC: Statistics: Making Sense of Data, Coursera](#)
- [STATS 250 - Introduction to Statistics and Data Analysis, UMichigan](#)
- [131B - Introduction to Probability and Statistics, UCI](#)
- [Multiple View Geometry - Lecture 1 \(Prof. Daniel Cremers\) TUM](#)
- [The Probability and Statistics Full Course - YouTube](#)
- [A first course in Linear Algebra - N J Wildberger - UNSW](#)

Web Programming and Internet Technologies

- [CS 75 Building Dynamic Websites - Harvard University](#)
 - [CSE 199 : How the Internet Works, Fall 2016 - University of Buffalo](#)
 - [Web Search - SS 2006 - Universität Freiburg](#)
 - [CSEP545: Transaction Processing for E-Commerce, Winter 2012 - University of Washington \(Videos\)](#)
 - [CT 310 Web Development - Colorado State University](#)
 - [Internet Technologies and Applications 2012, Steven Gordon - Thammasat University, Thailand](#)
 - [CSCI 3110 Advanced Topics in Web Development, Fall 2011 - ETSU iTunes](#)
 - [CSCI 5710 e-Commerce Implementation, Fall 2015 - ETSU iTunes](#)
 - [XML and Semantic Web-Technologies - SS 2005 - Universität Freiburg](#)
 - [MOOC: Web Development - Udacity](#)
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Theoretical CS and Programming Languages

- [MOOC - Compilers - Stanford University](#)
 - [CS 164 Hack your language, UC Berkeley \(Lectures - Youtube\)](#)
 - [CS 173 Programming Languages, Brown University \(Book\)](#)
 - [CS 421 - Programming Languages and Compilers, UIUC \(Videos\)](#)
 - [CSC 253 - CPython internals: A ten-hour codewalk through the Python interpreter source code, University of Rochester](#)
 - [CSEP 501 - Compiler Construction, University of Washington \(Lectures - Youtube\)](#)
 - [CSEP 505 Programming Languages, Winter 2015 - University of Washington](#)
 - [DMFP - Discrete Mathematics and Functional Programming, Wheaton College](#)
 - [CS 374 - Algorithms & Models of Computation \(Fall 2014\), UIUC \(Lecture videos\)](#)
 - [6.045 Automata, Computability, and Complexity, MIT \(Lecture Videos\)](#)
 - [MOOC: Automata - Jeffrey Ullman - Coursera](#)
 - [CS581 Theory of Computation - Portland State University \(Lectures - Youtube\)](#)
 - [Theory of Computation - Fall 2011 UC Davis](#)
 - [TDA555 Introduction to Functional Programming - Chalmers University of Technology \(Lectures - YouTube\)](#)
 - [Philip Wadler Haskell lecture recordings](#)
 - [Functional Programming - University of Edinburgh - 2016-17](#)
 - [MOOC - Functional Programming Principles in Scala by Martin Odersky \(YouTube\)](#)
 - [CS294: Program Synthesis for Everyone](#)
 - [MOOC: Principles of Reactive Programming, Scala - Coursera](#)
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Computer Organization and Architecture

- [How Computers Work - Aduni](#)
- [6.004 - Computation Structures Spring 2013, MIT](#)
- [CS 61C - Machine Structures, UC Berkeley \(Lectures - YouTube\)](#)
- [CS1: Higher Computing - Richard Buckland UNSW](#)
- [18-447 - Introduction to Computer Architecture, CMU \(Lectures - YouTube - Fall 15\)](#)
- [CS 152 Computer Architecture and Engineering, UC Berkeley](#)
- [CSEP 548 - Computer Architecture Autumn 2012 - University of Washington](#)
- [15-418 - Parallel Computer Architecture and Programming, CMU \(Lecture Videos\)](#)
- [EE445L Embedded Systems Design Lab, Fall 2015, UTexas](#)
- [CS149 Embedded Systems - Fall 2014 - UC Berkeley](#)
- [ECE 4760 Designing with Microcontrollers Fall 2016, Cornell University \(Lectures - Youtube\)](#)
- [CS 267 Applications of Parallel Computers, Spring 16 - UC Berkeley \(YouTube\)](#)
- [CMPE 118/L\(218/L\) - Mechatronics - Fall 2015](#)
- [Software Engineering for Embedded Systems - WS 2010/11 - iTunes - HPI](#)

- [ELEC2141 Digital Circuit Design, UNSW](#)
 - [MOOC: Computer Architecture, David Wentzlaff - Princeton University/Coursera](#)
 - [MOOC: From NAND to Tetris Building a Modern Computer From First Principles \(YouTube\)](#)
 - [MOOC: Heterogeneous Parallel Programming - Coursera](#)
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Security

- [6.858 Computer Systems Security - MIT OCW](#)
 - [CSEP590A: Practical Aspects of Modern Cryptography, Winter 2011 - University of Washington \(Videos\)](#)
 - [CIS 4930/ CIS 5930 - Offensive Computer Security, Florida State University](#)
 - [18-636 Browser Security, Stanford](#)
 - [Internet Security - Weaknesses and Targets \(WT 2015/16\) \(WT 2012/13 \(YouTube\)\)](#)
 - [IT Security, Steven Gordon - Thammasat University, Thailand](#)
 - [Security and Cryptography, Steven Gordon - Thammasat University, Thailand](#)
 - [Web Security - SS 2008 - Universität Freiburg](#)
 - [CS461/ECE422 - Computer Security - University of Illinois at Urbana-Champaign \(Videos\)](#)
 - [MOOC: Cryptography - Coursera](#)
 - [MOOC: Intro to Information Security - Udacity](#)
 - [Introduction to Cryptography, Christof Paar - Ruhr University Bochum, Germany](#)
-

Computer Graphics

- [CS 5630/6630 - Visualization, Fall 2016, University of Utah \(Lectures - Youtube\)](#)
 - [Advanced Visualization UC Davis](#)
 - [Computer Graphics Fall 2011](#)
 - [Introduction to Graphics Architecture](#)
 - [CS184 Computer Graphics, Fall 2012 - UC Berkeley](#)
 - [Rendering / Ray Tracing Course, SS 2015 - TU Wien](#)
-

Image Processing and Computer Vision

- [EE225B Digital Image Processing, Spring 2014 - UC Berkeley \(Videos - Spring 2006\)](#)
 - [EE637: Digital Image Processing I - Purdue University \(Videos - Sp 2011 ,Videos - Sp 2007\)](#)
 - [Image Processing and Analysis UC Davis](#)
 - [CAP 5415 - Computer Vision, University of Central Florida](#)
 - [Lecture: Variational Methods for Computer Vision \(Prof. D. Cremers\) TUM](#)
 - [Image Processing and Analysis \(Course\) UC Davis](#)
 - [Introduction to Vision and Robotics](#)
 - [EENG 512 / CSCI 512 - Computer Vision - Colorado School of Mines](#)
 - [MOOC: Digital Image processing - Duke/Coursera](#)
 - [MOOC: Introduction to Computer Vision - Udacity](#)
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HCI

- [CS147: Introduction to Human-Computer Interaction Design - Stanford](#)
 - [CSEP 510: Human Computer Interaction](#)
 - [Programming for Designers - COMP1400-T2 \(2010\) - UNSW](#)
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Misc

- [Computational Biology](#)

- [Skiena's Computational Biology Lectures](#)
- [6.802J/ 6.874J Foundations of Computational and Systems Biology - MIT OCW](#)
- [Bioinformatic II - WS 2010 - Universität Freiburg](#)
- **Computational Finance**
 - [Skiena's Computational Finance Lectures](#)
 - [MOOC: Mathematical Methods for Quantitative Finance, University of Washington/Coursera](#)
 - [18.S096 Topics in Mathematics with Applications in Finance, MIT OCW](#)
- **Game Development**
 - [MIT CMS.611J Creating Video Games, Fall 2014](#)
 - [CS 3152 - Introduction to Computer Game Development, Cornell University](#)
 - [Unity3D Tutorials](#)
 - [MOOC: Beginning Game Programming with C# - Coursera](#)
- [AM 207 - Monte Carlo Methods and Stochastic Optimization, Harvard University](#)
- [CS 223A - Introduction to Robotics, Stanford University](#)
- [Open Sourced Elective: Database and Rails - Intro to Ruby on Rails, University of Texas \(Lectures - Youtube\)](#)
- [SCICOMP - An Introduction to Efficient Scientific Computation, Universität Bremen \(Lectures - Youtube\)](#)
- [Lecture: Visual Navigation for Flying Robots - TUM](#)
- [CS E-259 XML with Java, Java Servlet, and JSP - Harvard](#)
- [CSE 40373 - Spr 2009: Multimedia Systems](#)
- [Exposing Digital Photography - Harvard Extension School](#)
- [XML and Databases - WS 2011 - Universität Freiburg](#)
- [MOOC: Matlab - Coursera](#)
- [Computing for Computer Scientists - University of Michigan](#)

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- **Additional Information**
 - Disclaimer: The links have been taken from public domain websites like Open courseware sites, class-central, , YouTube channels for Universities, University pages, Google, itunes U, blog posts and similar sites like awesome-courses etc. If you are University Professor for any course listed below and would like Your course to be removed from the list, please raise an issue with course details.
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