Programming Language

1. CS106B: Programming Abstractions – Stanford University

Link: https://web.stanford.edu/class/archive/cs/cs106b/cs106b.1208/

2. CS 106L: Standard C++ Programming – Stanford University

Link: http://web.stanford.edu/class/cs106l/

Video: https://www.youtube.com/playlist?list=PLCgD3ws8aVdolCexlz8f3U-RROA0s5jWA

Computer System

1. CMU 15-213: Intro to Computer Systems - CMU

Link: https://www.cs.cmu.edu/afs/cs/academic/class/15213-s18/www/schedule.html

2. CMU 18-447: Introduction to Computer Architecture - CMU

Link: https://course.ece.cmu.edu/~ece447/s15/doku.php?id=schedule

Prof. Onur Mutlu's recent course: https://people.inf.ethz.ch/omutlu/

Operating System

1. CS124 – CIT

Link: http://courses.cms.caltech.edu/cs124/lectures-wi2017/

2. CS162 – UC Berkeley

Link: https://inst.eecs.berkeley.edu/~cs162/sp20/

Algorithm

1. CS170: Efficient Algorithms and Intractable Problems – UC Berkeley

Link: https://cs170.org/

2. CS473 – UIUC

Link: https://courses.engr.illinois.edu/cs473/sp2016/lectures.html

Compiler

1. CSEP 501 – U of Washington

Link: https://courses.cs.washington.edu/courses/csep501/18sp/video/index.html

Computer Vision

1. CS231n: Convolutional Neural Networks for Visual Recognition –Stanford

University

Link: http://cs231n.stanford.edu/2017/

2. EECS 498-007 / 598-005: Deep Learning for Computer Vision – U of Michigan

Link: https://web.eecs.umich.edu/~justincj/teaching/eecs498/FA2019/

Natural Language Processing

1. CS224n: Natural Language Processing with Deep Learning – Stanford University

Link: https://web.stanford.edu/class/archive/cs/cs224n/cs224n.1194/

2. CS224U: Natural Language Understanding – Stanford University

Link: http://web.stanford.edu/class/cs224u/

3. CMU 11-411: Natural Language Processing - CMU

Link: http://demo.clab.cs.cmu.edu/NLP/#overview

4. CMU CS 11-747: Neural Networks for NLP

Link: http://phontron.com/class/nn4nlp2020/schedule/class-introduction.html

Video: http://phontron.com/class/nn4nlp2020/schedule/class-introduction.html

5. CMU CS11-737: Multilingual Natural Language Processing

Link: http://demo.clab.cs.cmu.edu/11737fa20/

Machine Learning

1. CS229: Machine Learning – Stanford University

Link: http://cs229.stanford.edu/

Video:

https://www.youtube.com/watch?v=jGwO_UgTS7I&ab_channel=stanfordonline

Deep Learning

1. Yann LeCun's Deep Learning Course – NYU

Link: https://cds.nyu.edu/deep-learning/

2. CS230: Deep Learning

Link: http://cs230.stanford.edu/

Reinforcement Learning

1. Introduction to Reinforcement Learning with David Silver - DeepMind & UCL

Link: https://deepmind.com/learning-resources/-introduction-reinforcement-learning-david-silver

2. Reinforcement Learning Lecture Series 2018 – DeepMind & UCL

Link: https://deepmind.com/learning-resources/reinforcement-learning-lectures-

series-2018

Misc.

1. Parallel Computer Architecture and Programming – CMU

Link: http://15418.courses.cs.cmu.edu/tsinghua2017/

2. CMU 15-462/662: Computer Graphics - CMU

Link: http://15462.courses.cs.cmu.edu/fall2020/

3. CMU 15-445/645: Database Systems - CMU

Link: https://15445.courses.cs.cmu.edu/fall2019/schedule.html

4. CMU 15-721: Advanced Database Systems - CMU

Link: https://15721.courses.cs.cmu.edu/spring2019/schedule.html

5. The Missing Semester of Your CS Education

Link: https://missing.csail.mit.edu/

6. Introduction to Algorithms – MIT

Link: https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-006-introduction-to-algorithms-fall-2011/index.htm

7. Performance Engineering of Software Systems – MIT

Link: https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-172-performance-engineering-of-software-systems-fall-2018/index.htm

8. CS221: Artificial Intelligence: Principles and Techniques

Link: https://stanford-cs221.github.io/autumn2019/#schedule

Video:

https://www.youtube.com/watch?v=J8Eh7RqggsU&ab_channel=stanfordonline

Web for Open Course

1. MIT Open Courseware

Link: https://ocw.mit.edu/