# Similar Courses

Last modified: 2026-11-19

Other universities teach courses much like this one, and many post their materials at no cost. They are a good place to see a topic explained a second way. Each table starts with the courses that have both recorded lectures and written material, such as notes, slides or problem sets, and then lists the ones that have only one of the two. A dash means none is listed here.

## Courses like this one

```
courses |>
  dplyr::filter(group == "courses-like-this-one") |>
  dplyr::select(!"group") |>
  knitr::kable(align = "lll")
```

| Course | Recorded lectures | Written material |
|---|---|---|
| Stanford's CS229, *Machine Learning* | Spring 2026[1]; Andrew Ng[2]'s Autumn 2018[3] | Lecture notes [1] |
| Stanford's *Statistical Learning*, taught by Hastie[4] and Tibshirani[5] | R edition[6]; Python edition[7]; Python labs[8] | Its textbook, *An Introduction to Statistical Learning* [2], [3]; lab notebooks[9] |
| Stanford's EE104, *Introduction to Machine Learning*, taught by Lall[10] | YouTube[11] | A complete set of lecture notes[12] |
| MIT's 6.036, *Introduction to Machine Learning* (Spring 2019)[13] | Open Learning Library[16] | Lecture notes, exercises, labs and homework[17] |

[1] https://www.youtube.com/playlist?list=PLaqpC4kq8Gpw
[2] https://profiles.stanford.edu/andrew-ng
[3] https://www.youtube.com/playlist?list=PLoROMvodv4rMiGQp3WXShtMGgzqpfVfbU
[4] https://profiles.stanford.edu/trevor-hastie
[5] https://profiles.stanford.edu/robert-tibshirani
[6] https://www.youtube.com/playlist?list=PLoROMvodv4rOzrYsAxzQyHb8n_RWNuS1e
[7] https://www.youtube.com/playlist?list=PLoROMvodv4rPP6braWoRt5UCXYZ71GZIQ
[8] https://www.youtube.com/playlist?list=PLoROMvodv4rNHU1-iPeDRH-J0cL-CrIda
[9] https://github.com/intro-stat-learning/ISLP_labs
[10] https://lall.stanford.edu/
[11] https://www.youtube.com/playlist?list=PLoROMvodv4rN_Uy7_wmS051_q1d6akXmK
[12] https://ee104.stanford.edu/
[13] Its materials are all usable without enrolling. The course is now numbered 6.390; its current webpage[14] has course notes[15] and lecture slides, and its recordings are open only to registered students.
[16] https://openlearninglibrary.mit.edu/courses/course-v1:MITx+6.036+1T2019/about
[17] https://openlearninglibrary.mit.edu/courses/course-v1:MITx+6.036+1T2019/about

| Course | Recorded lectures | Written material |
|---|---|---|
| Caltech's CS156, *Learning From Data*, taught by Abu-Mostafa[18] from his book [4] | 18 lectures[19], also on YouTube[20] | Slides[21] |
| The University of British Columbia's CPSC 340, *Machine Learning and Data Mining* | Gelbart's 2018 lectures[22] | Schmidt's slides, 100 Lectures on Machine Learning[23] |
| Harvard's CS 1810 (formerly CS 181), *Machine Learning* (2026), taught by Alvarez-Melis[24] and Du[25] | — | Syllabus[26]; free textbook of notes, *Undergraduate Fundamentals of Machine Learning*[27]; earlier years[28], including a recap of almost every lecture in 2022[29] |
| Harvard's CS 109A, *Introduction to Data Science* (Fall 2021), taught by Protopapas and Pillai | — | A page for each lecture[30], most with slides, and the exercise notebooks |
| MIT's 6.867, *Machine Learning* (Fall 2006), a graduate course taught by Jaakkola[31], Singh and Mohammad | — | Lecture notes[32] for most lectures; assignments and exams on MIT OpenCourseWare[33] |
| The University of Washington's CSE 446/546, *Machine Learning* (Spring 2026), taught by Jaques[34] | — | Lecture slides[35] [5], a textbooks page[36] of free references and math refreshers, and the site of every earlier CSE 546 offering[37] |
| The University of Washington's CSE/STAT 416, *Introduction to Machine Learning* (Summer 2020), taught by Swamy | — | Lecture slides and Colab notebooks[38] on regression, regularization, classification, clustering and neural networks |

[18] https://www.cms.caltech.edu/people/yaser
[19] https://work.caltech.edu/telecourse
[20] https://www.youtube.com/playlist?list=PLD63A284B7615313A
[21] https://work.caltech.edu/telecourse
[22] https://www.youtube.com/playlist?list=PLWmXHcz_53Q02ZLeAxigki1JZFfCO6M-b
[23] https://www.cs.ubc.ca/~schmidtm/Courses/LecturesOnML/
[24] https://dmelis.github.io/
[25] https://yilundu.github.io/
[26] https://harvard-ml-courses.github.io/cs181-web/
[27] https://github.com/harvard-ml-courses/cs181-textbook/blob/master/Textbook.pdf
[28] https://harvard-ml-courses.github.io/cs181-web/resources
[29] https://harvard-ml-courses.github.io/cs181-web-2022/
[30] https://harvard-iacs.github.io/2021-CS109A/pages/materials.html
[31] https://people.csail.mit.edu/tommi/
[32] https://ocw.mit.edu/courses/6-867-machine-learning-fall-2006/pages/lecture-notes/
[33] https://ocw.mit.edu/courses/6-867-machine-learning-fall-2006/
[34] https://courses.cs.washington.edu/courses/cse446/26sp/
[35] https://courses.cs.washington.edu/courses/cse446/26sp/schedule/lectures/
[36] https://courses.cs.washington.edu/courses/cse446/26sp/textbooks/
[37] https://courses.cs.washington.edu/courses/cse546/
[38] https://courses.cs.washington.edu/courses/cse416/20su/

| Course | Recorded lectures | Written material |
|---|---|---|
| The University of Washington's STAT 535, *Foundations of Machine Learning* (Autumn 2021), taught by Meila[39] | — | Handouts[40] on bias and variance, gradient descent, model selection, support vector machines and double descent; the follow-on STAT 548 handouts[41] (Winter 2022) go further into theory |
| The University of Washington's CSE 312, *Foundations of Computing II* (Summer 2020), taught by Tsun | 5MinuteAI's playlist[42] follows the course [6] | Materials and videos[43] on probability and statistics for computing |
| The University of Washington's CSE 547, *Machine Learning for Big Data* | — | A page for each offering[44], covering regularized linear models, matrix factorization, clustering, and sketching and hashing at scale |
| Stanford's STATS 202, *Data Mining and Analysis* | — | A full set of course notes[45] |
| Stanford's MS&E 226, *Fundamentals of Data Science* | — | Lecture notes[46] with R Markdown notebooks |
| Stanford's CME 250, *Introduction to Machine Learning*, a short course | — | Slides[47] |
| Stanford's CS129, *Applied Machine Learning* | None open to the public[48] | Handouts for each lecture[49] |
| The University of Edinburgh's *Machine Learning and Pattern Recognition* (MLPR) | — | Course notes[50] |
| Carnegie Mellon's 10-301/10-601, *Introduction to Machine Learning* (Spring 2026), taught by Virtue[51] and Gormley[52] | — | Slides[53] |
| NYU's DS-GA 1003, *Machine Learning* (Spring 2019), taught by Rosenberg | — | Slides[54] |

[39] https://sites.stat.washington.edu/mmp/
[40] https://sites.stat.washington.edu/mmp/courses/535/fall21/handouts.html
[41] https://sites.stat.washington.edu/mmp/courses/548/win22/handouts.html
[42] https://www.youtube.com/playlist?list=PLeB45KifGiuHesi4PALNZSYZFhViVGQJK
[43] https://courses.cs.washington.edu/courses/cse312/20su/
[44] https://courses.cs.washington.edu/courses/cse547/
[45] https://web.stanford.edu/class/stats202/
[46] https://web.stanford.edu/class/msande226/l_notes.html
[47] https://web.stanford.edu/class/cme250/
[48] CS129's lecture videos are on Coursera, in a session open only to students enrolled in the course.
[49] https://web.stanford.edu/class/cs129/
[50] https://mlpr.inf.ed.ac.uk/2024/
[51] https://www.cs.cmu.edu/~pvirtue/
[52] https://www.cs.cmu.edu/~mgormley/
[53] https://www.cs.cmu.edu/~mgormley/courses/10601/
[54] https://davidrosenberg.github.io/ml2019/

| Course | Recorded lectures | Written material |
|---|---|---|
| UCLA's Biostat 212A, *Statistical Machine Learning A*, taught by Jin Zhou [7][55] | — | Syllabus[56]; a slide deck for each topic[57], many with code in both R and Python; the decks' Quarto sources[58] |
| Cornell's CS4780, *Machine Learning for Intelligent Systems* | Weinberger[59]'s lectures[60]; the course webpage[61] is for the Spring 2024 offering | — |
| The University of Tübingen's *Statistical Machine Learning* (2020), taught by von Luxburg | YouTube[62], in English | — |
| UC Berkeley's Stat 154, *Modern Statistical Prediction and Machine Learning*, taught by Sanchez (site[63], GitHub[64]) | — | Course repository[65], and the primary textbook, Sanchez and Marzban's *All Models Are Wrong: Concepts of Statistical Learning*[66], a work in progress; neither states a license, so ask the authors before adapting |

For hands-on practice with scikit-learn, Inria's scikit-learn MOOC[67] has notebooks and exercises that are free to use.

## Related topics

These courses cover the math this course builds on, or topics that go further than it does.

```
courses |>
  dplyr::filter(group == "related-topics") |>
  dplyr::select(!"group") |>
  knitr::kable(align = "lll")
```

[55] Biostat 212A uses the same *An Introduction to Statistical Learning* and *The Elements of Statistical Learning* texts as this course.
[56] https://ucla-biostat-212a.github.io/2026winter/syllabus/syllabus.html
[57] https://ucla-biostat-212a.github.io/2026winter/schedule/schedule.html
[58] https://github.com/ucla-biostat-212a
[59] https://www.cs.cornell.edu/~kilian/
[60] https://www.youtube.com/playlist?list=PLl8OlHZGYOQ7bkVbuRthEsaLr7bONzbXS
[61] https://www.cs.cornell.edu/courses/cs4780/2024sp/
[62] https://www.youtube.com/playlist?list=PL05umP7R6ij2XCvrRzLokX6EoHWaGA2cC
[63] https://www.gastonsanchez.com
[64] https://github.com/gastonstat
[65] https://github.com/gastonstat/stat154
[66] https://allmodelsarewrong.github.io/
[14] https://introml.mit.edu/
[15] https://introml.mit.edu/notes/
[67] https://github.com/INRIA/scikit-learn-mooc

| Course | Recorded lectures | Written material |
|---|---|---|
| Columbia's EECS 6720, *Bayesian Models for Machine Learning*, taught by Paisley[68], on Bayesian linear regression, variational inference and latent variable models | — | Course notes (PDF, April 2026)[69], which states no license, so ask the author before adapting |
| Stanford's CS109, *Probability for Computer Scientists*, taught by Piech | 2022 lectures[70] | A course reader and the slides[71] |
| Stanford's EE263, *Matrix Methods*, on least squares and the singular value decomposition | Boyd[72]'s 2008 lectures[73], from when it was *Introduction to Linear Dynamical Systems* | Slides[74] |
| MIT's 18.065, *Matrix Methods in Data Analysis, Signal Processing, and Machine Learning* (Spring 2018), taught by Strang[75] | YouTube[76] | A reading list[77] keyed to his book *Linear Algebra and Learning from Data* |
| MIT's 18.06, *Linear Algebra*, taught by Strang[78] | His lectures, recorded in 1999, on MIT OpenCourseWare[79] | Assignments and exams, on the Spring 2010 course page[80] |
| Stanford's EE364A, *Convex Optimization I*, taught by Boyd[81] from his book [8] | 2023 lectures[82] | Slides[83] |

[68] https://www.columbia.edu/~jwp2128/
[69] https://www.columbia.edu/~jwp2128/Teaching/BML_lecture_notes.pdf
[70] https://www.youtube.com/playlist?list=PLoROMvodv4rOpr_A7B9SriE_iZmkanvUg
[71] https://web.stanford.edu/class/cs109/
[72] https://web.stanford.edu/~boyd/
[73] https://www.youtube.com/playlist?list=PL06960BA52D0DB32B
[74] https://ee263.stanford.edu/
[75] https://math.mit.edu/~gs/
[76] https://www.youtube.com/playlist?list=PLUl4u3cNGP63oMNUHXqIUcrkS2PivhN3k
[77] https://ocw.mit.edu/courses/18-065-matrix-methods-in-data-analysis-signal-processing-and-machine-learning-spring-2018/
[78] https://math.mit.edu/~gs/
[79] https://ocw.mit.edu/courses/18-06-linear-algebra-spring-2010/
[80] https://ocw.mit.edu/courses/18-06-linear-algebra-spring-2010/
[81] https://web.stanford.edu/~boyd/
[82] https://www.youtube.com/playlist?list=PLoROMvodv4rMJqxxviPa4AmDClvcbHi6h
[83] https://web.stanford.edu/class/ee364a/

| Course | Recorded lectures | Written material |
|---|---|---|
| Stanford's CS224N, *Natural Language Processing with Deep Learning* | Spring 2024 lectures[84] | Slides and notes[85] |
| Stanford's CS231N, *Deep Learning for Computer Vision* | 2025 lectures[86] | Slides and links to the course notes[87] |
| Stanford's CS224W, *Machine Learning with Graphs* | YouTube[88] | Slides[89] |
| Stanford's CS236, *Deep Generative Models* | 2023 lectures[90] | Course notes[91] |
| Stanford's CS234, *Reinforcement Learning* | Spring 2024 lectures[92] | Slides[93] |
| Stanford's CS224R, *Deep Reinforcement Learning* | YouTube[94] | Slides[95] |
| Stanford's CS330, *Deep Multi-Task and Meta Learning* | Autumn 2022 lectures[96] | Slides[97] |
| Stanford's CS224U, *Natural Language Understanding* | Spring 2021 lectures[98] | Slides and notebooks[99] |
| Stanford's CS336, *Language Modeling from Scratch* | Spring 2026 lectures[100] | Lecture materials and assignments[101] |
| Stanford's CME 295, *Transformers and Large Language Models* | Autumn 2025 lectures[102] | The course webpage[103], with a cheatsheet[104] and a syllabus[105] that lists each lecture's topics and links its slides and video as they are posted |

[84] https://www.youtube.com/playlist?list=PLoROMvodv4rOaMFbaqxPDoLWjDaRAdP9D
[85] https://web.stanford.edu/class/cs224n/
[86] https://www.youtube.com/playlist?list=PLoROMvodv4rOmsNzYBMe0gJY2XS8AQg16
[87] https://cs231n.stanford.edu/
[88] https://www.youtube.com/playlist?list=PLoROMvodv4rPLKxIpqhjhPgdQy7imNkDn
[89] https://web.stanford.edu/class/cs224w/
[90] https://www.youtube.com/playlist?list=PLoROMvodv4rPOWA-omMM6STXaWW4FvJT8
[91] https://deepgenerativemodels.github.io/notes/
[92] https://www.youtube.com/playlist?list=PLoROMvodv4rN4wG6Nk6sNpTEbuOSosZdX
[93] https://web.stanford.edu/class/cs234/
[94] https://www.youtube.com/playlist?list=PLoROMvodv4rPwxE0ONYRa_itZFdaKCylL
[95] https://cs224r.stanford.edu/
[96] https://www.youtube.com/playlist?list=PLoROMvodv4rNjRoawgt72BBNwL2V7doGI
[97] https://cs330.stanford.edu/
[98] https://www.youtube.com/playlist?list=PLoROMvodv4rPt5D0zs3YhbWSZA8Q_DyiJ
[99] https://web.stanford.edu/class/cs224u/
[100] https://www.youtube.com/playlist?list=PLoROMvodv4rMqXOcazWaTUHhq-yembLCV
[101] https://cs336.stanford.edu/
[102] https://www.youtube.com/playlist?list=PLoROMvodv4rOCXd21gf0CF4xr35yINeOy
[103] https://cme295.stanford.edu/
[104] https://cme295.stanford.edu/cheatsheet/
[105] https://cme295.stanford.edu/syllabus/

| Course | Recorded lectures | Written material |
|---|---|---|
| UC Berkeley's CS285, *Deep Reinforcement Learning*, taught by Levine[106] | 2023 lectures[107] | Slides[108] |
| Carnegie Mellon's 11-785, *Introduction to Deep Learning* | Spring 2026 lectures[109] | Slides[110] |
| MIT's 9.520, *Statistical Learning Theory and Applications* (Fall 2015), taught by Poggio[111] and Rosasco[112] | YouTube[113] | Syllabus, slides for most classes, and a reading list[114] |
| Harvard's AM207, *Stochastic Methods for Data Analysis, Inference and Optimization*, taught by Pan | A lecture video[115] | Lecture notes as Jupyter notebooks, and a summary of each lecture[116] |
| Stanford's STATS 191, *Introduction to Applied Statistics*, and its theory companion STATS 306B, taught by Jonathan Taylor[117][118] | — | Notebooks and lecture notes[119] on applied regression and its statistical theory |
| Stanford's CS229M/STATS 214, *Machine Learning Theory*, taught by Ma[120] | — | Scribed lecture notes[121]; the Autumn 2021 webpage[122] |
| Stanford's STATS 300A, *Theory of Statistics*, taught by Mackey[123] (Fall 2015) | — | Scribed notes for each lecture[124], on estimation and hypothesis testing |

[106] https://www2.eecs.berkeley.edu/Faculty/Homepages/svlevine.html
[107] https://www.youtube.com/playlist?list=PL_iWQOsE6TfVYGEGiAOMaOzzv41Jfm_Ps
[108] https://rail.eecs.berkeley.edu/deeprlcourse/
[109] https://www.youtube.com/playlist?list=PLp-0K3kfddPwarejN0RmVerKwkwgyvh3r
[110] https://deeplearning.cs.cmu.edu/S26/index.html
[111] https://mcgovern.mit.edu/profile/tomaso-poggio/
[112] https://web.mit.edu/lrosasco/www/
[113] https://www.youtube.com/playlist?list=PLyGKBDfnk-iDj3FBd0Avr_dLbrU8VG73O
[114] https://www.mit.edu/~9.520/fall15/
[115] https://onefishy.github.io/am207/
[116] https://onefishy.github.io/am207/
[117] https://statistics.stanford.edu/people/jonathan-taylor
[118] Taylor is a co-author of *An Introduction to Statistical Learning*'s Python edition [3].
[119] https://github.com/jonathan-taylor/stats-lecture-notes
[120] https://ai.stanford.edu/~tengyuma/
[121] https://github.com/tengyuma/cs229m_notes/blob/main/master.pdf
[122] https://web.stanford.edu/class/stats214/
[123] https://web.stanford.edu/~lmackey/
[124] https://web.stanford.edu/~lmackey/stats300a/

| Course | Recorded lectures | Written material |
|---|---|---|
| Stanford's STATS 300B, *Theory of Statistics II*, taught by Duchi[125] (Winter 2021) | — | Slides for each lecture[126], on asymptotic statistics and concentration |
| Stanford's STATS 300C, *Theory of Statistics III*, taught by Candès (Spring 2025) | — | Student-written notes[127] by Andrew Lin, on multiple testing, conformal inference and e-values |
| Stanford's STATS 310B, *Theory of Probability II* | — | Lecture notes by Dembo[128], a measure-theoretic treatment of probability |
| Stanford's STATS 315A, *Modern Statistical Learning*, taught by Trippe (Winter 2026) | — | The syllabus[129], which reaches from regression and trees to deep learning and language models |
| Stanford's STATS 315B, *Modern Applied Statistics*, taught by Fox (Spring 2023) | — | The course webpage[130], on trees, deep learning, clustering and time series, with *Probabilistic Machine Learning* as a text |
| Stanford's STATS 200, *Introduction to Statistical Inference*, taught by Fan (Autumn 2016) | — | Lecture PDFs[131] on testing, maximum likelihood, the bootstrap and regression |
| Stanford's STATS 305B, *Methods for Applied Statistics*, taught by Taylor[132] | — | Notes and slides[133] on generalized linear models, loglinear models and survival analysis |
| Stanford's STATS 231/CS229T, *Statistical Learning Theory*, taught by Duchi (Spring 2017) | — | Slides[134], with Liang's earlier course notes[135], on uniform laws, optimization and online learning |
| Stanford's CS228, *Probabilistic Graphical Models* | — | Course notes[136] |
| Stanford's CS205L, *Continuous Mathematical Methods with an Emphasis on Machine Learning* | — | Slides[137] |

[125] https://web.stanford.edu/~jduchi/
[126] https://web.stanford.edu/class/stats300b/lectures.html
[127] https://web.stanford.edu/~lindrew/stats300C.pdf
[128] https://web.stanford.edu/~montanar/TEACHING/Stat310B/NOTES/amir_notes.pdf
[129] https://web.stanford.edu/class/stats315a/syllabus.html
[130] https://stanford-stats315b.github.io/spring2023/
[131] https://web.stanford.edu/class/archive/stats/stats200/stats200.1172/lectures.html
[132] https://statistics.stanford.edu/people/jonathan-taylor
[133] https://web.stanford.edu/class/stats305b/
[134] https://web.stanford.edu/class/cs229t/2017/lectures.html
[135] https://web.stanford.edu/class/cs229t/notes.pdf
[136] https://ermongroup.github.io/cs228-notes/
[137] https://web.stanford.edu/class/cs205l/

| Course | Recorded lectures | Written material |
|---|---|---|
| Stanford's CS246, *Mining Massive Datasets* | — | Slides[138], with readings from the free book *Mining of Massive Datasets* |
| Stanford's CS329H, *Machine Learning from Human Preferences*, taught by Koyejo[139] | — | Its free textbook, *Machine Learning from Human Preferences*[140], linked from the course webpage[141] |
| Stanford's CS329S, *Machine Learning Systems Design*, taught by Huyen | — | Lecture notes and slides[142] |
| Stanford's STATS 361, *Causal Inference*, taught by Wager[143] | — | His free draft textbook[144] |
| Princeton's COS514, *Fundamentals of Deep Learning* (Fall 2025), taught by Arora[145] | — | A PDF for each lecture[146], and the draft book *Theory of Deep Learning* |
| University College London's COMP0090, *Introduction to Deep Learning*, taught by Hu | — | Jupyter notebooks[147] that try out each idea with a small experiment |
| Carnegie Mellon's 36-708, *Statistical Methods for Machine Learning*, a more advanced, theory-heavy treatment taught by Wasserman[148] | — | Lecture notes[149] |
| UCLA's Biostat M257, *Statistical Computing*, taught by Hua Zhou[150] | — | The course webpage[151], on numerical linear algebra and optimization in Julia, the computational math behind this course's model-fitting methods |
| UCLA's Biostat 203B, *Introduction to Data Science*, taught by Hua Zhou[152] | — | The course webpage[153], on the data-engineering and reproducible-research tooling this course assumes, with a statistical-learning and tidymodels unit partway through |

[138] https://web.stanford.edu/class/cs246/
[139] https://cs.stanford.edu/~sanmi/
[140] https://mlhp.stanford.edu/
[141] https://web.stanford.edu/class/cs329h/
[142] https://stanford-cs329s.github.io/
[143] https://web.stanford.edu/~swager/
[144] https://web.stanford.edu/~swager/causal_inf_book.pdf
[145] https://www.cs.princeton.edu/~arora/
[146] https://princetonuniversity.github.io/princeton-cos514-fall25.github.io/
[147] https://github.com/YipengHu/COMP0090
[148] https://www.stat.cmu.edu/~larry/
[149] https://www.stat.cmu.edu/~larry/=sml/
[150] https://hua-zhou.github.io/
[151] https://ucla-biostat-257.github.io/2026spring/
[152] https://hua-zhou.github.io/
[153] https://ucla-biostat-203b.github.io/2026winter/

| Course | Recorded lectures | Written material |
|---|---|---|
| Stanford's CS230, *Deep Learning* | Autumn 2025 lectures[154]; the course webpage[155] has the syllabus | — |
| Stanford's CS221, *Artificial Intelligence: Principles and Techniques* | Autumn 2025 lectures[156]; the course webpage[157] is for the current offering | — |
| MIT's 6.7960, *Deep Learning* (Fall 2024) | YouTube[158]; the syllabus is on MIT OpenCourseWare[159] | — |
| The University of Tübingen's *Probabilistic Machine Learning* (2025), taught by Hennig, on Gaussian processes and Bayesian inference | YouTube[160], in English | — |
| Harvard's Stat 110, *Probability*, the course Harvard's CS 1810 gives as an example of the probability background it expects | YouTube[161] | — |
| UC Berkeley's Stat 210A, *Theoretical Statistics*, taught by Fithian[162] | — | Fall 2024 course site[163]: course reader, handwritten notes, homework and old exams, licensed CC BY 4.0[164], so material can be adapted with attribution; also listed under Further reading in sds[165] |
| UC Berkeley's Stat 212A, *Topics in Selective Inference* (Fall 2015), taught by Fithian[166] | — | Course page[167]: syllabus, references, homework with solutions; states no license, so ask before adapting; also listed under Further reading in sds[168] |

[154] https://www.youtube.com/playlist?list=PLoROMvodv4rNRRGdS0rBbXOUGA0wjdh1X
[155] https://cs230.stanford.edu/
[156] https://www.youtube.com/playlist?list=PLoROMvodv4rMeDqwS1yFl3j3sR_-MQNEN
[157] https://cs221.stanford.edu/
[158] https://www.youtube.com/playlist?list=PLUl4u3cNGP63URZnh5iqBzDTDYPUTQT-8
[159] https://ocw.mit.edu/courses/6-7960-deep-learning-fall-2024/
[160] https://www.youtube.com/playlist?list=PL05umP7R6ij0hPfU7Yuz8J9WXjlb3MFjm
[161] https://www.youtube.com/playlist?list=PL2SOU6wwxB0uwwH80KTQ6ht66KWxbzTIo
[162] https://www.stat.berkeley.edu/~wfithian/teaching.html
[163] https://stat210a.berkeley.edu/fall-2024/
[164] https://stat210a.berkeley.edu/fall-2024/license.html
[165] https://morrison-lab.github.io/sds/sufficiency.html#sec-sufficiency-reading
[166] https://www.stat.berkeley.edu/~wfithian/teaching.html
[167] https://www.stat.berkeley.edu/~wfithian/courses/stat212a/
[168] https://morrison-lab.github.io/sds/multiple-testing.html#sec-multiple-testing-reading

| Course | Recorded lectures | Written material |
|---|---|---|
| UC Berkeley's Data 8, *Foundations of Data Science* (taught by Fithian[169] in Spring 2019) | — | Spring 2026 course site[170]; its public materials[171] (homework, labs, lectures) are licensed CC BY-NC 4.0, so they can be adapted with attribution and not commercially; its textbook *Computational and Inferential Thinking*[172] is CC BY-NC-ND 4.0, so link it and do not adapt it; the textbook is also listed under Further reading in sds[173] |
| UC Berkeley's Stat 133, *Concepts in Computing with Data*, and Stat 151A, *Linear Modeling*, taught by Sanchez | — | Course repositories stat133[174] and stat151a[175]; neither states a license, so ask before adapting |
| Sanchez's *PCA for Data Science* | — | Book[176]; no license stated, so ask before adapting |
| Sanchez's *R Ice Breaker*, *R Coding Basics*, *R Tidy Hurricanes*, *R Rolling Dice*, *R for Strings* and *R Web Technologies* | — | Short R books, each linked from his site[177], e.g. R Coding Basics[178]; each repository is licensed CC BY-NC-SA 4.0, so they can be adapted with attribution, not commercially, and under the same license |
| UC Davis's ECS 189G, *A Course on (Social) Fairness of Machine Learning Algorithms* (Spring 2023), taught by Matloff[179] | — | Course repository[180]: a reading list running from the COMPAS investigation and Simpson's paradox to fairness measures and remedies; homework; quizzes; discussion-section R notebooks on the COMPAS and German credit data; and fair machine learning datasets [9]; licensed GPL-3.0[181], so material can be adapted only if the adaptation is also released under GPL-3.0 |

## References


[1] T. Ma and A. Ng, "CS229 lecture notes." Stanford University; revised 23 August 2026, 2026. Available: https://cs229.stanford.edu/main_notes.pdf

[2] G. James, D. Witten, T. Hastie, and R. Tibshirani, *An introduction to statistical learning with applications in R*, 2nd ed. Springer, 2021. Available: https://www.statlearning.com/

[3] G. James, D. Witten, T. Hastie, R. Tibshirani, and J. Taylor, *An introduction to statistical learning: With applications in Python*. Springer, 2023. doi: 10.1007/978-3-031-38747-0[182].

[4] Y. S. Abu-Mostafa, M. Magdon-Ismail, and H.-T. Lin, *Learning from data: A short course*. AMLBook, 2012. Available: https://amlbook.com/


[169] https://www.stat.berkeley.edu/~wfithian/teaching.html
[170] https://www.data8.org/sp26/
[171] https://github.com/data-8/materials-sp26
[172] https://www.inferentialthinking.com/
[173] https://morrison-lab.github.io/sds/permutation-tests.html#sec-permutation-reading
[174] https://github.com/gastonstat/stat133
[175] https://github.com/gastonstat/stat151a
[176] https://pca4ds.github.io/
[177] https://www.gastonsanchez.com
[178] https://www.gastonsanchez.com/R-coding-basics/
[179] https://heather.cs.ucdavis.edu/matloff.html
[180] https://github.com/ucdavis/FairMLCourse
[181] https://github.com/ucdavis/FairMLCourse/blob/main/LICENSE
[182] https://doi.org/10.1007/978-3-031-38747-0

[5] N. Jaques, "CSE 446/546: Machine learning, lecture slides." University of Washington, 2026. Accessed: Oct. 12, 2026. [Online]. Available: https://courses.cs.washington.edu/courses/cse446/26sp/schedule/lectures/

[6] 5MinuteAI, "Probability & statistics." Video playlist on YouTube. Accessed: Oct. 12, 2026. [Online]. Available: https://www.youtube.com/playlist?list=PLeB45KifGiuHesi4PALNZSYZFhViVGQJK

[7] J. Zhou, "Biostat 212A: Statistical machine learning a, winter 2026." UCLA, course webpage with lecture slides, 2026. Available: https://ucla-biostat-212a.github.io/2026winter/

[8] S. Boyd and L. Vandenberghe, *Convex optimization*. Cambridge University Press, 2004. doi: 10.1017/CBO9780511804441[183].

[9] N. Matloff, "ECS 189G, Spring 2023: A Course on (Social) Fairness of Machine Learning Algorithms." Course materials, University of California, Davis; GitHub repository, 2023. Accessed: Oct. 27, 2026. [Online]. Available: https://github.com/ucdavis/FairMLCourse

[183] https://doi.org/10.1017/CBO9780511804441