

Math (all required)

- ☐ Calculus (UCB Equivalent: [Math 1A](#), [Math 1B](#), [Math 53](#))
- ☐ Linear Algebra (UCB Equivalent: [Math 54](#))
- ☐ Partial Differential Equations (UCB Equivalent: [Math 126](#))
- ☐ Statistics (2 upper-division level courses - UCB Equivalent: [Econ 140, 141](#) -please scroll down for course descriptions; Statistics [101, 102, 134, 135](#))
- ☐ Numerical Analysis (UCB Equivalent: [Math 128A](#))

Programming (all required)

- ☐ C++/C
- ☐ Python (advanced level)
- ☐ Machine Learning (advanced level)

Finance (2-3 courses required)

- ☐ Macroeconomics
- ☐ Corporate Finance
- ☐ CFA level 1 (<https://www.cfainstitute.org>, recommended)

Communications Skills (required to demonstrate strong skills; examples below)

- ☐ Business Writing/Communications Coursework
- ☐ [Toastmasters – not required but can be a great way to improve public speaking skill.](#)

Work Experience/Finance Internship (recommended, but not required)

MFE Pre-Program Courses

- ☐ Math
- ☐ Statistics
- ☐ C++

Exams

- ☐ GRE or GMAT (required for all candidates who will not hold a Ph.D. before the start of the program; no preference on which exam to take)
- ☐ TOEFL/IELTS (required for international students) - Minimum score of 90 on iBT

Books (strongly recommended for all candidates)

- ☐ [Heard on the Street: Quantitative Questions from Wall Street Job Interviews](#) by Timothy Crack
- ☐ [A Practical Guide to Quantitative Finance Interviews](#) by Xinfeng Zhou
- ☐ [Options, Futures, and Other Derivatives](#) by John Hull
- ☐ [Principles of Corporate Finance](#) by Brealey, Myers, and Allen
- ☐ [The Wall Street Journal](#), the [Financial Times](#), and the [Economist](#)
- ☐ [Macroeconomics](#) by Charles Jones

Places to find courses-

- ☐ UC Berkeley Extension- extension.berkeley.edu
- ☐ NetMath at UIUC- netmath.illinois.edu
- ☐ Columbia Video Network- www.cvn.columbia.edu/
- ☐ Stanford SCPD- scpdweb.stanford.edu
- ☐ Harvard Extension- extension.harvard.edu
- ☐ Applied Math Online at UW- amathonline.uw.edu
- ☐ University of Athabasca- <http://www.athabascau.ca/syllabi/math/math476.php> (achieve 80% or better)
- ☐ Coursera*
- ☐ edX/Other MOOC courses*

*Please note that courses taken through a MOOC platform should be taken for the certificate option