Why consider a master’s degree?

- Develop advanced qualifications/skillsets in area of expertise
- Gain professional skills, personal development, and valuable connections with fellow students, academics, and industry experts
- Pursue academic interests in more depth
- Gain professional skills, personal development, and valuable connections with fellow students, academics, and industry experts
- Pursue employment opportunities – some career sectors require or prefer master level applicants
- Sense of accomplishment
- Promotion, increase in salary, or job transition
- Greater employment opportunities
- Development of advanced qualifications/skillsets in area of expertise
Graduate Schools vs. Professional Schools

- Graduate school programs: offers more advanced course of study in an academic discipline (such as math, engineering, writing, etc.)
  - Can be on its own or as a step towards a PhD
  - I.e. completing a Master’s or PhD in Mathematics in order to use an academic skillset in a real-world setting, e.g.
  - Good option for those who want to use an academic skillset in a real-world setting (such as social work or medicine)

- Professional school programs: prepare students for careers in specific fields (such as medicine, law, business, etc.)
  - May be required before working in a particular occupation (such as social work or medicine)
  - Completing a Masters in Finance or an MS in Business Analytics in order to use an academic skillset in a real-world setting (such as social work or medicine)
  - Good option for those who want to use an academic skillset in a real-world setting
  - Can be on its own or as a step towards a PhD
  - I.e. completing a Master’s or PhD in Mathematics in order to do research or teach in a discipline (such as math, engineering, writing, etc.)

Graduate Schools vs. Professional Schools
Applying to graduate/professional schools

- Tests: GRE, GMAT/LSAT/MCAT

- Essays/Persomal Statement

- Internship or work experience (is it required or not?)

  Build and maintain connections now

  How many? From whom?

- Letters of Recommendation

  Official or unofficial?

- Transcripts

  How much should I study before? How much does the test cost? Where do I take it?

  Will I want to retake the test? Can I submit multiple test scores?

  What are competitive scores for the school or program?

- Resume or CV

- Letters of Recommendation

  Official or unofficial?
Why consider graduate business school?

• Use skillset in real-world settings

...but I have never studied business!
Why Rady?

• Founded in 2003, the Rady School is one of the youngest and fastest growing business schools.
• Deeply rooted in the innovative and entrepreneurial spirit of California.
• Founded by San Diego and Southern California business leaders.
• More than 150 companies have been founded by Rady graduates.
• Youngest school to ever get AACSB accreditation.

5 Things You Didn’t Know About the Rady School

1. Youngest school.
2. Received $700 million commitment from Rady Foundation.
3. Ranked #1 for Intellectual Capital by BusinessWeek.
4. More than 150 companies have been founded by Rady graduates.
5. Provides a small business school environment with the benefits of a large university.

#RADYMADz

Analytics

Programs in Finance and Business

Specialized Quantitative Master’s

california Business Leaders

Entrepreneurial Spirit of California

deeply rooted in the innovative and growing business schools

Founded in 2003, the Rady School is one of the youngest and fastest growing business schools.

Why Rady?
Applications for Fall 2018 are now being accepted. Upcoming deadlines: Dec 1, Feb 1, April 1*, June 1

Interviews by invitation only

Applications reviewed on a rolling basis.

Requirements:
- Online Application: apply.grad.ucsd.edu

- Copy of all transcripts (unofficial, electronic copies)
- Statement of Purpose: Rady School of Management develops ethical and entrepreneurial leaders who make a positive impact in the world through innovation, collaboration, and knowledge.
- Letters of recommendation (2), current resume or CV
- GMAT or GRE (both valid for five years)
- English proficiency testing, if required (valid two years)

*Applications for fall 2018 are now being accepted. Upcoming deadlines: Dec 1, Feb 1, April 1, June 1.

Requirements:
- Online Application: apply.grad.ucsd.edu
Master of Science in Business Analytics

Data Driven ∙ Empirical ∙ Collaborative ∙ Knowledge

1 year analytics program

Developed by Rady faculty in response to the increasing demand for qualified business analysts

Students will:
• Receive rigorous, hands-on training to develop models and analyze data
• Focus on predictive analytics and optimization for data-driven decision-making
• Use of statistical and optimization tools (e.g., R, Shiny, Radiant)
• Use of quantitative skills to create better decision tools and the ability to manage analytics teams and projects

Gain both quantitative skills and the ability to manage business problems

Strong foundation in probability and statistics, programming, and statistical applications preferred

Students will:
• Develop by Rady faculty in response to the increasing demand for qualified business analysts

1 year analytics program
MS in Business Analytics Program

Program has an August start

Full-time program: 50 units completed over 12 months

1 year program – Required Orientation beginning Summer quarter, Core (16 units) & Electives (28 units)

Through Fall, Winter & Spring quarters, complete Capstone Project (4 units) in last two quarters

Required Core Courses

Business Analytics Capstone Project
Business Analytics
Collecting and Analyzing Large Data
Finance, and Operations
Business Analytics in Marketing
Professional Seminar

Example Electives

Business Forecasting
Behavioral Finance
Social Media Marketing
Consumer Behavior
Research for Marketing Decisions
Strategy
Technology and Innovation

Creativity and Innovation
Decision Making
Managerial Leadership
Experiences in Firms
Business Intelligence Systems
Supply Chain Analytics
Customer Analytics

SESSION I
SUMMER FALL QUARTER
SESSION II
SPRING QUARTER
WINTER QUARTER
M. Melvin: academic and practitioner

• Managing Director at BlackRock
  • Manage money for our clients
  • Pension funds, foundations, governments, central banks, & mutual funds
  • Individuals (iShares & mutual funds)
BlackRock has offices in 24 countries and more than 60 cities.
The Finance Industry - "fundamental" vs. "quant" investors
- "buy side" vs. "sell side"

- "fundamental" vs. "quant" investors

- Optimized & traded models with algorithmic trading
- Systematic quantitative analysis
- "buy side" vs. "sell side"

- Fundamental analyses
- Filter data and inform views (screening metrics used to inform views)
Roles in Investment Firms

- **Researcher**
  - Develop ideas into trading signals
  - Monitor market for out-of-model risks and opportunities

- **Portfolio Manager**
  - Oversee daily portfolio decisions
  - Interface with trading desk

- **Risk Manager**
  - Monitor all portfolios and stress test for performance in different scenarios

- **Strategist**
  - Represent portfolios and approach to clients
  - Monitor market for out-of-model risks and opportunities

- **Portfolio Manager**
  - Oversee daily optimization or daily portfolio decisions

- **Researcer**
  - Develop ideas into trading signals
Other roles in finance include:

- Financial analyst

  Provide guidance to firms in their investment decisions

  Governments and multinational organizations

  Rather than financial assets, invest in real assets like real estate or businesses.

- Private equity investor

  Evaluate the likelihood of future events and manage risk

- Actuary

  Researchers, managers, and analysts.
1 year quantitative finance program

- Master of Finance

- Developed by Rady Faculty in response to the financial crisis of 2007-2008
- The program’s emphasis on quantitative models and methods ensures graduates are equipped to develop innovative solutions to the complex problems facing the financial industry
- The financial industry has a current demand for people who can:
  - Work with and analyze large sets of data
  - Design and implement financial models
  - Produce sound economic forecasts

- Students will learn leading-edge methods for analyzing “big data” for financial decision making and risk management
- The program’s emphasis on quantitative models and methods ensures graduates are equipped to develop innovative solutions to the complex problems facing the financial industry

- Data Driven • Empirical • Collaborative • Knowledge
Master of Finance

Schedule – 1 year option

Fall Quarter
- Professional Seminar
- Elective 1
- Elective 2
- Elective 3
- Elective 4
- Advanced Financial Risk Management

Winter Quarter
- Elective 5
- Elective 6
- Elective 7
- Elective 8
- Professional Seminar

Spring Quarter
- Elective 9
- Elective 10
- Elective 11
- Elective 12
- Elective 13
- Elective 14
- Professional Seminar

Summer Quarter
- Professional Project
- (Internship?)
- Capstone Project

Sample Electives
- Stochastic Calculus
- Continuous Time Finance
- Computational Finance
- New Venture Finance
- Behavioral Finance
- Derivatives and Structured Credit
- Business Forecasting and Analyzing
- Financial Data Collecting and Analyzing
- Financial Risk Management
- Intermediate Financial Accounting
- Valuation in Corporate Finance
- Money & Banking
- Microeconomics
- Macroeconomics

Academic Year

2018

University of California San Diego
School of Management

Fall Term
Pre-Term
Master of Finance Program

Capstone Applied Finance Project (4 credits)

• Direct, hands-on experience applying concepts, frameworks and tools learned in the classroom to a financial data or risk management project or initiative. Most projects done in collaboration with industry partners.

• Completed during the final quarter of the program under faculty supervision – option to do internship in summer and return in Fall to finish.

Sample List of Projects

- Blending Active & Passive Funds
- Macroeconomic Analysis & Portfolio Stress Tests
- Announcement effects of Chinese debt-equity swaps
- Institutional change in the FX market & Trading Strategies
- Regime switching and asset allocation
- Early warning indicators of “flash crash”
- Evidence of behavioral biases in financial advisors
- International Equity Hedging Strategies
- Blending Active & Passive Funds

Sample List of Firms

- BlackRock
- Citibank
- Deutsche Bank
- Dodge & Cox
- First Quadrant
- Integral
- Moody’s
- Mulligan Funding
- Renaissance
- Reality
- Schroders
- State Street
- TPG
- TPG
- Research Affiliates
- RealSport
- Milliman Funding
- DWS
- EY
- Deloitte
- Booz Allen
- BlackRock
- State Street
- Schroders

Capstone Applied Finance Project (4 credits)
• PhD Programs
  - Rady, Duke, Univ. of Texas, Stanford, Univ. of Chicago

Employers in San Diego Area
  - ClariVest
  - Gurtin Muni Bond Mgt
  - Valiantica, Inc. (Bay Area)
  - JP Morgan Chase

Employers Outside San Diego Area
  - Dropy Capital (Santa Monica)
  - UBS
  - Goldman Sachs
  - CTBC Bank (LA)
  - Milken Institute (Israel)
  - Vivo Capital (Bay Area)
  - Bank of China (Chicago & New York)

Employers in San Diego Area
  - JPMorgan Chase
  - Morningstar Affiliates
  - Curtin Muni Bond Mgt
  - Valiantica, Inc. (Bay Area)
  - JP Morgan Chase

Building Connections
FINANCE STUDENTS ARE HEADED TO:
RADY MSBA STUDENTS ARE GETTING HIRED AT:

- Micron
- WD-40
- Amazon
- Clover
- 8Best
- AMN Healthcare
- Memer
- Automotion Mastermind
Join us for class visits, one-on-one advising sessions, and special events.

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Questions