Graduate Programs in Finance and Business Analytics
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 with fellow students, academics, and industry experts
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• Sense of accomplishment
• Promotion, increase in salary, or job transition
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Graduate School Programs 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 do research or teach

- 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)
  - Good option for those who want to use an academic skillset in a real-world setting, i.e. completing a Masters in Finance or MS in Business Analytics in order to use mathematic skillset in real world situations
  - I.e. completing a Master’s or PhD in Mathematics in order to do research or teach
Applying to graduate/professional schools

• Tests: GRE, GMAT/LSAT/MCAT

Æ What are competitive scores for the school or program?

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

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

• Transcripts

Æ Official or unofficial?

Build and maintain connections now

Æ How many? From whom?

• Letters of recommendation

Æ Official or unofficial?

• Essays/Persomal statement

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

• Resume or CV

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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.
• Specialized Quantitative Master’s Programs in Finance and Business Analytics.
• More than 150 companies have been founded by graduates.
• Ranked #1 for Intellectual Capital by BusinessWeek.
• Youngest school to ever get AACSB accreditation.
• Provided a small business school environment with the benefits of a large university.

5 things you didn’t know about the Rady School:

1. Received $100 million commitment from Rady Foundation.
2. Youngest school to ever get AACSB accreditation.
3. Ranked #1 for Intellectual Capital by BusinessWeek.
4. More than 150 companies have been founded by graduates.
5. Youngest school to ever get AACSB accreditation.

#RADYMADE
Online Application:
apply.grad.ucsd.edu

Requirements:
• 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 recommendations (2), current resume or CV
• GMAT or GRE (both valid for five years)
• English proficiency testing, if required (valid two years)

Applications reviewed on a rolling basis

Applications for fall 2018 are now being accepted

Upcoming deadlines: Dec 1, Feb 1, April 1*, June 1

Interview by invitation only

Applications Checklist
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 analytics professionals.

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 statistics and machine learning to solve business problems
- Gain both quantitative skills to create better decision tools and the ability to manage analytics teams and projects
- Strong foundation in probability and statistics, programming, and application preferred
- Developed in response to the increasing demand for qualified business analytics professionals

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MS in Business Analytics Program

Program has an August start.

Full-time program: 50 units completed over 12 months.

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

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

Fall Quarter
- Business Analytics Capstone Project
- Collecting and Analyzing Large Data
- Business Analytics in Marketing
- Professional Seminar

Winter Quarter
- Business Analytics
- Managerial Judgement and Business Intelligence Systems
- Supply Chain Analytics
- Customer Analytics

Spring Quarter
- Business Forecasting
- Behavioral Finance
- Social Media Marketing
- Consumer Behavior
- Research for Marketing Decisions
- Technology and Innovation

EXAMPLE ELECTIVES

Required Core Courses
M. Melvin background: academic and practitioner

- Managing Director at BlackRock
  - Manage money for our clients
  - Pension funds, foundations, governments, central banks, & individuals (iShares & mutual funds)

M. Melvin background: academic and practitioner
BlackRock has offices in 24 countries and more than 60 cities.
The Financial Industry

- "fundamental" vs. "quant" investors
- "buy side" vs. "sell side"

The Financial Industry

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Roles in Investment Firms

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

- **Portfolio Manager**
  - Oversee daily optimization or daily portfolio decisions
  - Interface with trading desk
  - Monitor market for out-of-model risks and opportunities

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

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

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

- **Researcher**
  - Develop ideas into trading signals

School of Management
University of California, San Diego
Other roles in finance include...

- Actuary
  - Evaluate the likelihood of future events & manage risk
- Private equity investor
  - Rather than financial assets, invest in real assets like real estate or
- Financial analyst
  - Provide guidance to firms in their investment decisions
  - Business firms
  - Rather than financial assets, invest in real assets like real estate or
  - Private equity investor
  - Evaluate the likelihood of future events & manage risk
  - Actuary

Governments and multinational organizations
1 year quantitative finance program

Data Driven ∙ Empirical ∙ Collaborative ∙ Knowledge

Master of Finance

Industry

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
• Work with and analyze large sets of data

The financial industry faces a current demand for people who can:

• Develop by Rady Faculty in response to the financial crisis of 2007-2008
Master of Finance

Schedule – 1 year option

Fall Quarter
- Professional Seminar
- Elective 1
- Elective 2
- Financial Accounting
- Investment Analysis
- Financial Econometrics & Empirical Methods
- Elective 3

Winter Quarter
- Professional Seminar
- Elective 4
- Elective 5
- Advanced Financial Risk Management
- Elective 6

Spring Quarter
- Elective 7
- Elective 8
- Professional Seminar

Summer Quarter
- Elective 9
- Capstone Project

+ Internship

Academic Year
- Stochastic Calculus and Continuous Time Finance
- Money & Banking
- Business Forecasting
- Behavioral Finance
- Derivatives and Structured New Venture Finance
- Computational Finance
- Intermediate Financial Accounting
- Valuation in Corporate Finance
- Financial Data Collection and Analysis
- Business Forecasting
- Continuous Time Finance
- Stochastic Calculus and

Sample Electives
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 Firms

- BlackRock
- Citibank
- Deutsche Bank
- Dodge & Cox
- First Quadrant
- Integral
- Moodys
- Mulligan Funding
- Research Affiliates
- Realstar
- Schroders
- State Street
- TPG
- Schroders
- Research Affiliates
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- Mulligan Funding
- Moodys
- Integral
- First Quadrant
- Dodge & Cox
- Deutsche Bank
- ChinaBank
- BlackRock

Sample list of Projects

- Blending Active & Passive Funds
- International Equity Hedging Strategies
- Evidence of Behavioral Biases in Financial Advisors
- Regime Switching and Asset Allocation
- Early warning indicators of “flash crash”
- International Equity Hedging Strategies
- Blending Active & Passive Funds
Employers in San Diego area

- Rady, Duke, Univ. of Texas, Stanford, Univ. of Chicago
- The Retirement Group
- Factor Technologies
- J.P. Morgan Chase
- ClariVest
- Gurtin Muni Bond Mgt.
- Acera Biosciences
- Zensun USA
- Fortis Advisors
- Altegris
- UBS
- Goldman Sachs
- CTBC Bank (LA)
- Milken Institute (Israel)
- Vivo Capital (Bay Area)
- Bank of China (Chicago & New York)
- JP Morgan Capital (Santa Monica)
- Drobny Capital (Santa Monica)
- Valiantica, Inc. (Bay Area)
- Integral Development Corp (Bay Area)
- Altegris Securities
- Dimensional Fund Advisors

Employers Outside San Diego

- Bank of China (Chicago & New York)
- Vivo Capital (Bay Area)
- Milken Institute (Israel)
- JP Morgan Chase
- Valiantica, Inc. (Bay Area)
- Integral Development Corp (Bay Area)
- Dimensional Fund Advisors
- CITIC Securities
- LSBC
- Goldman Sachs
- CTBC Bank (LA)
- Milken Institute (Israel)
- Vivo Capital (Bay Area)
- Bank of China (Chicago & New York)
- JP Morgan Capital (Santa Monica)
- Drobny Capital (Santa Monica)
- Valiantica, Inc. (Bay Area)
- Integral Development Corp (Bay Area)
- Altegris Securities
- Dimensional Fund Advisors
- Zensun USA
- Fortis Advisors
- Altegris
- Factor Technologies
- The Retirement Group
- Rady, Duke, Univ. of Texas, Stanford, Univ. of Chicago
- The Retirement Group
- Factor Technologies
- J.P. Morgan Chase
- ClariVest
- Gurtin Muni Bond Mgt.
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Building Connections

PhD Programs

• PhD Programs
• Employers Outside San Diego
• Employers in San Diego area
• Building Connections
HEADS TO:

Rady Finance Students Are
RADY MSBA STUDENTS ARE GETTING HIRED AT:
Join us for class visits, one-on-one advising sessions, and special events.

- Madriquéka Koppe mkoppe@ucsd.edu
- RadyGradAdmissions@ucsd.edu

Questions