

## Master of Accountancy – Data and Analytics

The W. P. Carey Master of Accountancy — Data and Analytics (MACC D&A) program is one of a select group of accounting master's degrees developed in partnership with KPMG. In only 12 months, you can earn your master's and begin your career at an advanced level compared to recent college graduates. In fact, with access to Surgent CPA Review materials, MACC students can prepare for and pass the CPA exam while enrolled in our program.

The MACC D&A equips you with the analytical skills and critical thinking needed to keep pace with the innovations and advancements in modern accounting practices. Applied elective courses will build new proficiencies in data mining and the technologies used to support the demand for analytics within the profession.



“ I expect to work in public accounting in the U.S. and W. P. Carey Career Services provides the resources to guide every student to companies and positions. The school also has many outstanding alumni who network with us and give opportunities to students. ”

*Emily Tseng, MACC D&A 2019*

Develop technical knowledge and career skills through a case-based curriculum.

**43%**

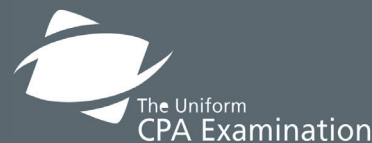
of U.S. companies plan to hire accountancy master's students

**52%**

plan to hire data analytics master's students

– GMAC Corporate Recruiters Survey Report 2018

The MACC fulfills current course requirements for the CPA exam.



New data and analytics track offered in partnership with KPMG.



**U.S. News & World Report**  
No. 1 Most innovative schools  
No. 20 Accounting, graduate

# MACC D&A curriculum

Developed in partnership with KPMG, the 12-month Master of Accountancy — Data and Analytics (MACC D&A) program provides a solid foundation in the technologies and methodologies used to navigate today's highly complex and data-centric audit and financial consulting environment.

Through case-based projects and team exercises, you will expand your functional expertise, learn how to articulate views and insights, simplify complex ideas and challenge business assumptions, build your strategic thinking and communication skills, and expand your knowledge of business operations and emerging technology.

## Accounting core courses

### Internal Controls Audit and Fraud Prevention & Detection

Learn internal control frameworks and U.S. GAAS for financial statement audits and audits of internal controls. Define fraud: What it is and how it is committed, detected, and resolved.

### Professional Accounting Research

Apply FASB and IASB regulatory guidance to solve complex financial reporting issues. Improve your analytical, critical thinking, and communication skills through cases, class participation, and presentations. Learn how to use FASB Codification and eIFRS, as well as how to write detailed and concise research memos.

### Advanced Auditing

Build on undergraduate auditing concepts and master in-depth aspects of auditing, as well as emerging issues influencing the process and profession. Case studies will develop your critical thinking and analytical skills as they relate to auditing.

### Corporate Governance and Sustainability

Build awareness and critical thinking skills around corporate governance structures, their strengths, weaknesses, and differing ethical norms. Through case studies and relevant articles, you will learn how environmental, social, and governance metrics are changing traditional annual reports and the profession.

## STEM-designated program

The STEM designation – administered by the U.S. Immigration and Customs Enforcement agency within the Department of Homeland Security – allows eligible graduates on student visas access to an Optional Practical Training (OPT) extension, up to 36 months, as compared to 12 months for non-STEM degrees.

The longer work authorization term may help international students gain additional real-world skills and experience in the U.S.

## Shareholder Value Creation and Financial Statement Analysis

Analyze financial statements and performance using financial ratio analysis and basic valuation techniques. Learn how changing valuation assumptions influences value estimates and practice methods of communicating your findings.

## Data and analytics core courses

### Generating Audit Analytics Using Accounting Information Systems

Examine the emerging roles of accounting analytics in business, auditing, and tax contexts. Learn to understand the data within major accounting information systems and generate meaningful audit and/or tax analytics from the data.

### Innovations with Auditing Technologies

Investigate the role of technology-related innovations on audits and auditing performance. Learn to capture data from recent innovations in technologies for audit applications (e.g., IoT) and examine roles of these recent technology innovations for audit performance (e.g., cognitive computing).

### Statistics for Accounting Analytics

Explore theories of probability and uncertainty through statistics — including descriptive, predictive, and prescriptive analyses — as well as regression and other models to support audit decisions and conclusions.

### Business Data Visualization

Explore the design of insightful business data visualizations and dashboards to improve business decision-making. Learn to apply advanced data visualization techniques to make sense of large data sets including temporal, geospatial, topical, and business data, while also making it easier to digest, present, and utilize for business needs and users.

### Data Mining I

Unlock the fundamental principles and techniques of data mining, and — through hands-on experience with SAS Enterprise Miner software — examine real-world examples and data to place data-mining techniques in context and develop data-analytic thinking.

## Companies that hire our graduates

- APS — Arizona Public Service
- Arizona Office of the Auditor General
- Bank of Oklahoma
- Banner Health
- Barnett Management
- BDO USA
- Butler Hansen PC
- Deloitte LLP
- Ernst & Young
- Heinfeld, Meech & Co. PC
- Honeywell Aerospace
- Huawei Technologies
- KPMG LLP
- Moss Adams
- Perkins & Co.
- PricewaterhouseCoopers
- Vavrinek, Trine, Day & Co. LLP
- Xingye Bank