Information in this publication is current as of October 2018 and is subject to change.

COURSE CATALOG
Academic Year 2018–2019

Table of Contents

Full-Time MBA Requirements and Core Course Sequences ................................................................. 3
Full-Time Master of Science Programs .................................................................................................. 5
Professional MBA Requirements and Core-Course Sequences ......................................................... 14
Part-Time Master of Science Programs ................................................................................................ 15
MBA Concentrations, Specializations, and Minors ............................................................................. 16
Specialized-Degree Programs ............................................................................................................. 25
International Opportunities ................................................................................................................ 26
Course Descriptions ............................................................................................................................ 28
Administration ......................................................................................................................................... 53
Faculty ..................................................................................................................................................... 54

2018-2019 SIMON BUSINESS SCHOOL COURSE CATALOG

Provisions of this publication are not to be regarded as an irrevocable contract between the student and the William E. Simon School of Business. Simon Business School reserves the right to make changes in its course offerings, degree requirements, regulations and procedures, and fees and expenses as educational and financial considerations require.

Simon encourages the application of all qualified persons interested in the study of management at the master’s and doctoral levels.

The University of Rochester values diversity and is committed to equal opportunity for persons regardless of age, color, disability, ethnicity, gender identity or expression, genetic information, marital status, military/veteran status, national origin, race, religion/creed, sex, sexual orientation, or any other status protected by law. Further, the University complies with all applicable non-discrimination laws in the administration of its policies, admissions, employment, and access to and treatment in University programs and activities.

Questions on compliance should be directed to the particular school or department and/or to the University’s Intercessor, University of Rochester, P.O. Box 270039, Rochester, NY 14627-0039. Phone: (585) 275-9125.

CONTACT INFORMATION:
Academic Operations and Registrar’s Office
245 Gleason Hall
Phone: (585) 275-3533

Office of Student Engagement
202 Schlegel Hall
Phone: (585) 275-8163

To view the current Academic Calendar, please go to:
http://www.simon.rochester.edu/registrar/registrar/academic-calendars/index.aspx

While the study grids contained in this book are current for the 2018-2019 academic year, the arrangement of courses is subject to change.
**MBA REQUIREMENTS AND CORE COURSE SEQUENCES**

**Full-Time MBA Program**
To earn the Master of Business Administration degree, a full-time student must complete 68 credit-hours of study with a minimum 3.0 grade-point average.

Students take 9 required core courses and 13 electives, 1 project course with GBA 401, and the MGC course sequence taken during the first year.

Much of the academic work in the MBA program will rely on computer-based analysis and computer-assisted presentations. Upon entry to the program, faculty will expect students to have a working knowledge of spreadsheet and word-processing software. The programs most widely used are Microsoft Excel and Access.

Although not required, students may complete a concentration, specialization, or minor. For more details refer to page 16-24.

**REQUIRED COURSES**
ACC 401. Corporate Financial Accounting
CIS 401. Information Systems for Management
FIN 402. Capital Budgeting and Corporate Objectives
GBA 401. Structured Problem Solving in Teams
GBA 411. Business Modeling
GBA 412. Data Analytics
MKT 402. Marketing Management
OMG 402. Operations Management
STR 401. Managerial Economics
STR 403. Organization and Strategy
MGC 401. Professional Communication
MGC 402. Communicating Analytics
MGC 403. Teamwork
MGC 411. Interpersonal Persuasion and Influence

**FULL-TIME MBA CLASS OF 2020**
**TWO-YEAR MBA PROGRAM: YEAR 1 (QUARTERS)**

<table>
<thead>
<tr>
<th>PRE-FALL TERM</th>
<th>FALL TERM</th>
<th>WINTER TERM</th>
<th>SPRING TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>STR 401 Managerial Economics</td>
<td>GBA 412 Data Analytics</td>
<td>GBA 411 Business Modeling</td>
<td>CIS 401 Information Systems for Management</td>
</tr>
<tr>
<td>ACC 401 Corporate Financial Accounting</td>
<td>OMG 402 Operations Management</td>
<td>Elective</td>
<td>Choose 1 Project Course: MKT 441 Brand Management</td>
</tr>
<tr>
<td>MKT 402 Marketing Management</td>
<td>Elective</td>
<td>Elective</td>
<td>FIN 434 Investment Management and Trading Strategies</td>
</tr>
<tr>
<td>FIN 402 Capital Budgeting and Corporate Objectives</td>
<td>GBA 401 (1 credit) Structured Problem Solving in Teams</td>
<td>MGC 401 (1 credit) Professional Communication</td>
<td></td>
</tr>
<tr>
<td>MGC 401 (1 credit) Professional Communication</td>
<td>MGC 402 (1 credit) Communicating Analytics</td>
<td>MGC 403 (1 credit) Teamwork</td>
<td>MGC 411 (1 credit) Interpersonal Persuasion and Influence</td>
</tr>
</tbody>
</table>

Pre-Fall + Fall Total Credit Hours: 17  
Winter Total Credit Hours: 11  
Spring Total Credit Hours: 10

All courses are 3-credit hours unless indicated otherwise.

Year 1 Total Credit Hours: 38
## TWO-YEAR MBA PROGRAM: YEAR 2 (SEMESTERS)

<table>
<thead>
<tr>
<th>FALL TERM</th>
<th>SPRING TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL A</strong></td>
<td><strong>FALL B</strong></td>
</tr>
<tr>
<td>STR 403 Organization and Strategy</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

Fall A + Fall B Total Credit Hours: 15
Spring A + Spring B Total Credit Hours: 15

All courses are 2.5-credit hours unless indicated otherwise.

Year 2 Total Credit Hours: 30
Degree Total: 68
FULL-TIME MASTER OF SCIENCE PROGRAMS

FULL-TIME MASTER OF SCIENCE IN ACCOUNTANCY

The program of study for the Master of Science in Accountancy is a lock-step program, which meets all the requirements for a STEM designated degree. Students take 12 core courses, 1 elective, and the MGC course sequence. A minimum 3.0 grade point average is required for graduation.

Assuming that students have met certain undergraduate prerequisites, this program has been designated by the New York State Education Department as fulfilling the 150 credit-hour requirement for professional education programs in public accountancy.

Students whose undergraduate programs do not satisfy all the assumed prerequisites will be advised of the additional courses that they must complete following a review of their undergraduate transcript. The New York State Education Department will have final approval upon application for licensure.

CORE COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 410</td>
<td>Managerial Accounting and Performance Measurement</td>
</tr>
<tr>
<td>ACC 411</td>
<td>Applied Financial Statement Analysis with Data Analytics</td>
</tr>
<tr>
<td>ACC 417</td>
<td>Auditing</td>
</tr>
<tr>
<td>ACC 419</td>
<td>Positive Accounting Research Concepts and Empirical Analysis Tools</td>
</tr>
<tr>
<td>ACC 423</td>
<td>Financial Reporting I</td>
</tr>
<tr>
<td>ACC 424</td>
<td>Financial Reporting II</td>
</tr>
<tr>
<td>ACC 436</td>
<td>Research Into Professional Accounting Standards</td>
</tr>
<tr>
<td>ACC 437</td>
<td>Basic Federal Income Tax Accounting</td>
</tr>
<tr>
<td>ACC 438</td>
<td>Auditing II—Auditing and Information Systems</td>
</tr>
<tr>
<td>BPP 432</td>
<td>Basic Business Law</td>
</tr>
<tr>
<td>GBA 462R</td>
<td>Core Statistics for MS Students Using R</td>
</tr>
<tr>
<td>MGC 461</td>
<td>Professional Communication</td>
</tr>
<tr>
<td>MGC 462</td>
<td>Communicating Analytics</td>
</tr>
<tr>
<td>MGC 463</td>
<td>Teamwork</td>
</tr>
</tbody>
</table>

ELECTIVE OPTIONS

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 418</td>
<td>Taxes and Business Strategy</td>
</tr>
<tr>
<td>ACC 439</td>
<td>Accounting Analytics for Forensics</td>
</tr>
</tbody>
</table>

FULL-TIME MS IN ACCOUNTANCY (NON-INTERNSHIP TRACK)

<table>
<thead>
<tr>
<th>PRE-FALL TERM</th>
<th>FALL TERM</th>
<th>WINTER TERM</th>
<th>SPRING TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPP 432</td>
<td>GBA 462R</td>
<td>ACC 437</td>
<td>ACC 424</td>
</tr>
<tr>
<td>GBA 464</td>
<td>ACC 436</td>
<td>ACC 417</td>
<td>ACC 411</td>
</tr>
<tr>
<td>Programming for Analytics</td>
<td>Research Into Professional Accounting Standards</td>
<td>Auditing</td>
<td>Applied Financial Statement Analysis with Data Analytics</td>
</tr>
<tr>
<td>ACC 410</td>
<td>ACC 419</td>
<td>ACC 423</td>
<td>Choose 1 Elective:</td>
</tr>
<tr>
<td></td>
<td>ACC 423</td>
<td></td>
<td>ACC 439</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Accounting Analytics for Forensics</td>
</tr>
<tr>
<td>MGC 461 (1 credit)</td>
<td>MGC 462 (2 credits)</td>
<td>MGC 463 (1 credit)</td>
<td>Teamwork</td>
</tr>
<tr>
<td>Professional Communication</td>
<td>Communicating Analytics</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pre-Fall + Fall Total Credit Hours: 18  
Winter Total Credit Hours: 13  
Spring Total Credit Hours: 12

All courses are 3-credit hours unless indicated otherwise.  
Degree Total Credit Hours: 43
### FULL-TIME MS IN ACCOUNTANCY (INTERNSHIP TRACK)

<table>
<thead>
<tr>
<th>PRE-FALL TERM</th>
<th>FALL TERM</th>
<th>WINTER TERM</th>
<th>SPRING TERM</th>
<th>FALL A MINI TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPP 432</td>
<td>GBA 462R</td>
<td>ACC 437</td>
<td>ACC 424</td>
<td>ACC 436I</td>
</tr>
<tr>
<td>GBA 464</td>
<td>ACC 410</td>
<td>ACC 417</td>
<td>ACC 411</td>
<td></td>
</tr>
<tr>
<td>Programming for Analytics</td>
<td>Managerial Accounting and Performance Measurement</td>
<td>Auditing</td>
<td>Applied Financial Statement Analysis with Data Analytics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACC 419</td>
<td></td>
<td>ACC 438</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Positive Accounting Research Concepts and Empirical Analysis Tools</td>
<td></td>
<td>Auditing II—Auditing and Information Systems</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACC 423</td>
<td></td>
<td>Choose 1 Elective:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Financial Reporting I</td>
<td></td>
<td>ACC 418 Taxes &amp; Business Strategy</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACC 439 Accounting Analytics for Forensics</td>
<td></td>
</tr>
<tr>
<td>MGC 461 (1 credit)</td>
<td>MGC 462 (2 credits)</td>
<td>MGC 463 (1 credit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Communication</td>
<td>Communicating Analytics</td>
<td>Teamwork</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pre-Fall + Fall Total Credit Hours: 15  
Winter Total Credit Hours: 13  
Spring Total Credit Hours: 12  
Fall Total Credit Hours: 3

All courses are 3-credit hours unless indicated otherwise.  
Degree Total Credit Hours: 43

---

**Key Elements for MSA Students**

**Internship Track**

- The last class of ACC436 can be taken remotely, however all students are required to return to the campus for the last three (3) class hours and complete the in-person final exam. Failure to attend the last three (3) class hours and final exam will result in failing the class.
- Petitions to change tracks are reviewed on a case-by-case basis and should be discussed with your academic advisor.

**Teams**

- Prior to the start of classes, students will be assigned to teams of four (4) or five (5) classmates for your core classes.
- Requests to change teams within a term will not be granted. It is expected you will learn to work with your team through any issues or obstacles that arise and utilize the advising process for issue resolution.
FULL-TIME MASTER OF SCIENCE IN FINANCE

The program of study for the Master of Science in Finance is a lock-step program which meets all the requirements for a STEM-designated degree. Students take 10 core courses, 2 electives, 1 project course, and the MGC course sequence. A minimum 3.0 grade point average is required for graduation.

CORE COURSES
ACC 401.* Corporate Financial Accounting
ACC 411. Financial Statement Analysis with Data Analytics
FIN 411. Investments
FIN 413. Corporate Finance

ELECTIVE OPTIONS
ACC 424. Financial Reporting II
BPP 426. Macroeconomics

FULL-TIME MS IN FINANCE (NON-INTERNSHIP TRACK)

<table>
<thead>
<tr>
<th>PRE-FALL TERM</th>
<th>FALL TERM</th>
<th>WINTER TERM</th>
<th>SPRING TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBA 462</td>
<td>ACC 401*</td>
<td>ACC 411</td>
<td>FIN 430</td>
</tr>
<tr>
<td>Core Statistics for MS Students</td>
<td>Corporate Financial Accounting</td>
<td>Financial Statement Analysis with Data Analytics</td>
<td>Risk Management</td>
</tr>
<tr>
<td>FIN 462</td>
<td>FIN 411</td>
<td>FIN 424</td>
<td>FIN 448</td>
</tr>
<tr>
<td>Foundations in Financial Economics</td>
<td>Investments</td>
<td>Options and Future Markets</td>
<td>Fixed-Income Securities</td>
</tr>
<tr>
<td>FIN 413</td>
<td></td>
<td></td>
<td>Choose 1 Elective:</td>
</tr>
<tr>
<td>Corporate Finance</td>
<td></td>
<td></td>
<td>BPP 426: Macroeconomics</td>
</tr>
<tr>
<td>FIN 418</td>
<td></td>
<td></td>
<td>FIN 434: Investment Management and Trading Strategies</td>
</tr>
<tr>
<td>Quantitative Finance with Python</td>
<td></td>
<td></td>
<td>FIN 441G: Special Topics in Finance: Asset Management</td>
</tr>
<tr>
<td>FIN 424</td>
<td></td>
<td></td>
<td>FIN 442X: International Finance &amp; Switzerland Immersion</td>
</tr>
<tr>
<td>Options and Future Markets</td>
<td></td>
<td></td>
<td>STR 442F: Strategy, Organization, and Firm Value</td>
</tr>
<tr>
<td>MGC 461 (1 credit)</td>
<td>MGC 462 (2 credits)</td>
<td>MGC 463 (1 credit)</td>
<td></td>
</tr>
<tr>
<td>Professional Communication</td>
<td>Communicating Analytics</td>
<td>Teamwork</td>
<td></td>
</tr>
<tr>
<td>Choose 1 Project Course Option:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option 1 Track:</td>
<td>FIN 465A</td>
<td>FIN 465B</td>
<td></td>
</tr>
<tr>
<td>FIN 465A</td>
<td>Applied Finance Project I (0 Credit)</td>
<td>Applied Finance Project II</td>
<td></td>
</tr>
<tr>
<td>Option 2 Track:</td>
<td>FIN 434P</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIN 434P</td>
<td>Investment Management and Trading Strategies (with Meliora Fund or instructor assigned project)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option 3 Track:</td>
<td>GBA 484A</td>
<td>FIN 444P</td>
<td></td>
</tr>
<tr>
<td>GBA 484A</td>
<td>Simon School Venture Fund for Analysts (1 Credit)</td>
<td>Entrepreneurial Finance</td>
<td></td>
</tr>
<tr>
<td>Pre-Fall + Fall Quarter Total Credit Hours: 21</td>
<td>Winter Total Credit Hours: 10</td>
<td>Spring Total Credit Hours: 12</td>
<td></td>
</tr>
</tbody>
</table>

*Students with sufficient prior coursework in accountancy, or holding a CPA, can petition to substitute ACC401 (Corporate Financial Accounting) with ACC423 (Financial Reporting I) in Fall Term.
**FULL-TIME MS IN FINANCE STEM (INTERNSHIP TRACK)**

<table>
<thead>
<tr>
<th>PRE-FALL TERM</th>
<th>FALL TERM</th>
<th>WINTER TERM</th>
<th>SPRING TERM</th>
<th>FALL A MINI TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBA 462</td>
<td>ACC 401*</td>
<td>ACC 411</td>
<td>FIN 430</td>
<td>FIN 418I</td>
</tr>
<tr>
<td>Core Statistics for MS Students</td>
<td>Corporate Financial Accounting</td>
<td>Financial Statement Analysis with Data Analytics</td>
<td>Risk Management</td>
<td>Quantitative Finance with Python</td>
</tr>
<tr>
<td>FIN 462</td>
<td>FIN 411</td>
<td>FIN 424</td>
<td>FIN 448</td>
<td></td>
</tr>
<tr>
<td>Foundations in Financial Economics</td>
<td>Investments</td>
<td>Options and Future Markets</td>
<td>Fixed-Income Securities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FIN 413</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Corporate Finance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FIN 418</td>
<td>Choose 1 Elective:</td>
<td>Choose 1 Elective:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Quantitative Finance with Python</td>
<td>BPP426: Macroeconomics</td>
<td>ACC 424: Financial Reporting II</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FIN 434</td>
<td>CIS 418</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FIN 441G</td>
<td>FIN 433</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FIN 442X</td>
<td>FIN 441A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STR 442F</td>
<td>FIN 444</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Strategy, Organization, and Firm Value</td>
<td>FIN 446</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Financial Technology (FinTech)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STR 440</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Corporate Governance</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FIN 418I</td>
<td></td>
</tr>
</tbody>
</table>

**MSF OPTIONS FOR PROJECT COURSE COMPONENT**

<table>
<thead>
<tr>
<th>OPTION 1</th>
<th>OPTION 2</th>
<th>OPTION 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN465 (Winter and Spring)</td>
<td>FIN434P (Winter)</td>
<td>GBA484A (Winter) and FIN444P (Spring)</td>
</tr>
<tr>
<td>Instructor Assigned Project</td>
<td>+ Meliora Fund (Recommended)</td>
<td>+ Simon School Venture Fund</td>
</tr>
<tr>
<td>Deadline: October</td>
<td>Deadline: October</td>
<td>You must apply and be accepted.</td>
</tr>
</tbody>
</table>

*Students with sufficient prior coursework in accountancy, or holding a CPA, can petition to substitute ACC401 (Corporate Financial Accounting) with ACC423 (Financial Reporting I) in Fall Term.
Key Elements for MSF Students

Internship Track

- The last class of FIN418 can be taken remotely, however all students are required to return to the campus for the last three (3) class hours and complete the in-person final exam. Failure to attend the last three (3) class hours and final exam will result in failing the class.
- Petitions to change tracks are reviewed on a case-by-case basis and should be discussed with your academic advisor.

Teams

- Prior to the start of classes, students will be assigned to teams of four (4) or five (5) classmates for your core classes.
- Requests to change teams within a term will not be granted. It is expected you will learn to work with your team through any issues or obstacles that arise and utilize the advising process for issue resolution.
FULL-TIME MASTER OF SCIENCE IN MARKETING ANALYTICS

The program of study for the Master of Science in Marketing Analytics is a lock-step program which meets all the requirements for a STEM-designated degree. It is designed to equip students with the skills and experience necessary to excel in marketing jobs in a compact, highly focused program. Students are likely to take a job related to one of the program’s four main emphases: marketing research, consumer insights, advertising, and account management.

Students take 9 core courses, 3 electives and the MGC course sequence. A minimum 3.0 grade point average is required for graduation.

**CORE COURSES**

CIS 417. Introduction to Business Analytics
GBA 462R. Core Statistics for MS Students Using R
GBA 463. Economics and Marketing Strategy for MS Students
GBA 464. Programming for Analytics
MGC 461. Professional Communication
MGC 462. Communicating Analytics
MGC 463. Teamwork
MKT 412R. Marketing Research Using R
MKT 414. Pricing Policies
MKT 436R. Marketing Analytics Using R
MKT 451. Consumer and Brand Research
MKT 465A/B. Marketing Analytics Projects I & II

**ELECTIVE OPTIONS**

CIS 418. Advanced Business Modeling and Analysis Using Spreadsheets
CIS 434. Social Media Analytics
CIS 442E. Data Management for Analytics
MKT 431. Consumer Behavior
MKT 437. Digital Marketing Strategy
MKT 439. Advanced Pricing
MKT 440. Pricing Analytics

## FULL-TIME MS IN MARKETING ANALYTICS (NON-INTERNSHIP TRACK)

<table>
<thead>
<tr>
<th>PRE-FALL TERM</th>
<th>FALL TERM</th>
<th>WINTER TERM</th>
<th>SPRING TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBA 463</td>
<td>GBA 462R</td>
<td>MKT 465A</td>
<td>MKT 465B</td>
</tr>
<tr>
<td>Economics and Marketing Strategy for MS Students</td>
<td>Core Statistics for MS Students Using R</td>
<td>(0 credits)</td>
<td>(Project I)</td>
</tr>
<tr>
<td>GBA 464</td>
<td>CIS 417</td>
<td>MKT 436R</td>
<td>MKT 451</td>
</tr>
<tr>
<td>Programming for Analytics</td>
<td>Introduction to Business Analytics</td>
<td>Marketing Analytics Using R</td>
<td>Consumer and Brand Research</td>
</tr>
<tr>
<td>MKT 414</td>
<td>MKT 412R</td>
<td>Choose 1 Elective:</td>
<td>Choose 2 Electives:</td>
</tr>
<tr>
<td>Pricing Policies</td>
<td>Marketing Research Using R</td>
<td>C 442E Data Management for Analytics</td>
<td>C 418 Advanced Business Modeling and Analysis Using Spreadsheets</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MKT 437</td>
<td>C 434 Social Media Analytics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Digital Marketing Strategy</td>
<td>MKT 431 Consumer Behavior</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MKT 439</td>
<td>MKT 440 Pricing Analytics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Advanced Pricing</td>
<td></td>
</tr>
</tbody>
</table>

MGC 461 (1 credit) - Professional Communication  
MGC 462 (2 credits) - Communicating Analytics  
MGC 463 (1 credit) - Teamwork

Pre-Fall + Fall Quarter Total Credit Hours: 18  
Winter Total Credit Hours: 10  
Spring Total Credit Hours: 12

All courses are 3-credit hours unless indicated otherwise. 
Degree Total Credit Hours: 40
### FULL-TIME MS IN MARKETING ANALYTICS (INTERNSHIP TRACK)

<table>
<thead>
<tr>
<th>PRE-FALL TERM</th>
<th>FALL TERM</th>
<th>WINTER TERM</th>
<th>SPRING TERM</th>
<th>FALL A MINI TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBA 463</td>
<td>GBA 462R</td>
<td>MKT 465A</td>
<td>MKT 465B</td>
<td>CIS 418I</td>
</tr>
<tr>
<td>Economics and Marketing Strategy for MS Students</td>
<td>Core Statistics for MS Students Using R</td>
<td>(0 credits) Marketing Analytics Project I</td>
<td>Marketing Analytics Project II</td>
<td>Advanced Business Modeling and Analysis Using Spreadsheets</td>
</tr>
<tr>
<td>GBA 464</td>
<td>CIS 417</td>
<td>MKT 436R</td>
<td>MKT 451</td>
<td></td>
</tr>
<tr>
<td>Programming for Analytics</td>
<td>Introduction to Business Analytics</td>
<td>Marketing Analytics Using R</td>
<td>Consumer and Brand Research</td>
<td></td>
</tr>
<tr>
<td>Marking</td>
<td>MKT 414</td>
<td>MKT 412R</td>
<td>Choose 1 Elective:</td>
<td></td>
</tr>
<tr>
<td>Pricing Policies</td>
<td></td>
<td>Marketing Research Using R</td>
<td>Choose 1 Elective:</td>
<td></td>
</tr>
<tr>
<td>Choose 1 Elective:</td>
<td></td>
<td></td>
<td>Choose 1 Elective:</td>
<td></td>
</tr>
<tr>
<td>CIS 442E</td>
<td>colorWithRed</td>
<td></td>
<td>CIS 434</td>
<td></td>
</tr>
<tr>
<td>Data Management for Analytics</td>
<td></td>
<td></td>
<td>Social Media Analytics</td>
<td></td>
</tr>
<tr>
<td>MKT 437</td>
<td>MKT 439</td>
<td>MKT 451</td>
<td>MKT 431</td>
<td></td>
</tr>
<tr>
<td>Digital Marketing Strategy</td>
<td>Advanced Pricing</td>
<td>Consumer and Brand Research</td>
<td>Consumer Behavior</td>
<td></td>
</tr>
<tr>
<td>MKT 440</td>
<td></td>
<td></td>
<td>MKT 440</td>
<td></td>
</tr>
<tr>
<td>Pricing Analytics</td>
<td></td>
<td></td>
<td>Pricing Analytics</td>
<td></td>
</tr>
<tr>
<td>MGC 461 (1 credit)</td>
<td>MGC 462 (2 credits)</td>
<td>MGC 463 (1 credit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Communication</td>
<td>Communicating Analytics</td>
<td>Teamwork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Fall + Fall Quarter Total Credit Hours: 18</td>
<td>Winter Total Credit Hours: 10</td>
<td>Spring Total Credit Hours: 9</td>
<td>Fall Total Credit Hours: 3</td>
<td></td>
</tr>
</tbody>
</table>

All courses are 3 credit-hours unless indicated otherwise. Degree Total Credit Hours: 40

### Key Elements for MSMA Students

#### Internship Track
- The last class of CIS418 can be taken remotely, however all students are required to return to the campus for the last three (3) class hours and complete the in-person final exam. Failure to attend the last three (3) class hours and final exam will result in failing the class.
- Petitions to change tracks are reviewed on a case-by-case basis and should be discussed with your academic advisor.

#### Teams
- Prior to the start of classes, students will be assigned to teams of four (4) or five (5) classmates for your core classes.
- Requests to change teams within a term will not be granted. It is expected you will learn to work with your team through any issues or obstacles that arise and utilize the advising process for issue resolution.
FULL-TIME MASTER OF SCIENCE IN BUSINESS ANALYTICS

The program of study for the Master of Science in Business Analytics degree has been designated as a lock-step program which meets all the requirements for a STEM designated program. It combines business frameworks with the latest data analytics techniques to provide students with skills and concepts to deal with big data in organizations. Students will learn concepts for dealing with large volumes, real time and unstructured data from organizational, web, and social sources. Economics, statistics, and elements from computer science form the foundation of the program.

Students take 10 required courses, 2 electives, and the MGC course sequence. A minimum 3.0 grade point average is required for graduation.

CORE COURSES
- CIS 417. Introduction to Business Analytics
- CIS 432. Predictive Analytics Using Python
- CIS 434. Social Media Analytics
- CIS 442E. Data Management for Analytics
- CIS 465A/B. Practicum in Business Analytics I & II
- GBA 462R. Core Statistics for MS Students Using R
- GBA 463. Economics and Marketing Strategy for MS Students
- GBA 464. Programming for Analytics
- GBA 466.* Accounting and Finance for MS Students
- MKT 436R. Marketing Analytics Using R
- MGC 461. Professional Communication
- MGC 462. Communicating Analytics
- MGC 463. Teamwork

ELECTIVE OPTIONS
- CIS 418. Advanced Business Modeling and Analysis Using Spreadsheets
- CIS 442F. Big Data
- MKT 440. Pricing Analytics
- MKT 451. Consumer and Brand Research
- OMG 411. Supply Chain Analytics

FULL-TIME MS IN BUSINESS ANALYTICS (NON-INTERNSHIP TRACK)

<table>
<thead>
<tr>
<th>PRE-FALL TERM</th>
<th>FALL TERM</th>
<th>WINTER TERM</th>
<th>SPRING TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBA 463</td>
<td>GBA 462R</td>
<td>CIS 465A</td>
<td>CIS 465B</td>
</tr>
<tr>
<td>Economics and Marketing Strategy for MS Students</td>
<td>Core Statistics for MS Students Using R</td>
<td>(0 credits) Practicum in Business Analytics I</td>
<td>Practicum in Business Analytics II</td>
</tr>
<tr>
<td>GBA 464</td>
<td>CIS 417</td>
<td>CIS 432</td>
<td>CIS 434</td>
</tr>
<tr>
<td>Programming for Analytics</td>
<td>Introduction to Business Analytics</td>
<td>Predictive Analytics Using Python</td>
<td>Social Media Analytics</td>
</tr>
<tr>
<td>GBA 466*</td>
<td>GBA 466</td>
<td>CIS 442E</td>
<td>Choose 2 Electives:</td>
</tr>
<tr>
<td>Accounting and Finance for MS Students</td>
<td>Data Management for Analytics</td>
<td>CIS 418</td>
<td>Advanced Business Modeling and Analysis Using Spreadsheets</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MKT 436R</td>
<td>CIS 442F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marketing Analytics Using R</td>
<td>Big Data</td>
</tr>
<tr>
<td>MGC 461 (1 credit)</td>
<td>MGC 462 (2 credits)</td>
<td>MGC 463 (1 credit)</td>
<td>Choose 2 Electives:</td>
</tr>
<tr>
<td>Professional Communication</td>
<td>Communicating Analytics</td>
<td>Teamwork</td>
<td>CIS 418</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Advanced Business Modeling and Analysis Using Spreadsheets</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CIS 442F</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Big Data</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MKT 440</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pricing Analytics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MKT 451</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Consumer and Brand Research</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OMG 411</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Supply Chain Analytics</td>
</tr>
</tbody>
</table>

Pre-Fall + Fall Quarter Total Credit Hours: 18
Winter Total Credit Hours: 10
Spring Total Credit Hours: 12

All courses are 3-credit hours unless indicated otherwise.
Degree Total Credit Hours: 40

*Students with sufficient prior coursework in accountancy or finance can petition to substitute GBA 466 (Accounting and Finance for MS Students) with FIN 418 (Quantitative Finance with Python) or MKT 414 (Pricing Policies) in the Fall Term.
## FULL-TIME MS IN BUSINESS ANALYTICS (INTERNSHIP TRACK)

<table>
<thead>
<tr>
<th>PRE-FALL TERM</th>
<th>FALL TERM</th>
<th>WINTER TERM</th>
<th>SPRING TERM</th>
<th>FALL A MINI TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBA 464 Programming for Analytics</td>
<td>CIS 417 Introduction to Business Analytics</td>
<td>CIS 432 Predictive Analytics Using Python</td>
<td>CIS 434 Social Media Analytics</td>
<td></td>
</tr>
<tr>
<td>GBA 466* Accounting and Finance for MS Students</td>
<td>CIS 442E Data Management for Analytics</td>
<td></td>
<td>Choose 1 Elective:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CIS 442F Big Data</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MKT 440 Pricing Analytics</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MKT 451 Consumer and Brand Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OMG 411 Supply Chain Analytics</td>
<td></td>
</tr>
<tr>
<td>MGC 461 (1 credit) Professional Communication</td>
<td>MGC 462 (2 credits) Communicating Analytics</td>
<td>MGC 463 (1 credit) Teamwork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Fall + Fall Quarter Total Credit Hours: 18</td>
<td>Winter Total Credit Hours: 10</td>
<td>Spring Total Credit Hours: 9</td>
<td>Fall Total Credit Hours: 3</td>
<td></td>
</tr>
</tbody>
</table>

All courses are 3-credit hours unless indicated otherwise. Degree Total Credit Hours: 40

*Students with sufficient prior coursework in accountancy or finance can petition to substitute GBA 466 (Accounting and Finance for MS Students) with FIN 418 (Quantitative Finance with Python) or MKT 414 (Pricing Policies) in the Fall Term.

**Key Elements for MSBA Students**

**Internship Track**
- The last class of CIS418 can be taken remotely, however all students are required to return to the campus for the last three (3) class hours and complete the in-person final exam. Failure to attend the last three (3) class hours and final exam will result in failing the class.
- Petitions to change tracks are reviewed on a case-by-case basis and should be discussed with your academic advisor.

**Teams**
- Prior to the start of classes, students will be assigned to teams of four (4) or five (5) classmates for your core classes.
- Requests to change teams within a term will not be granted. It is expected you will learn to work with your team through any issues or obstacles that arise and utilize the advising process for issue resolution.
# PROFESSIONAL MBA (PMBA)

To earn the Master of Business Administration degree, students in Simon’s PMBA program take 9 core courses and 11 electives with a minimum 3.0 grade-point average to complete the degree. Although not required, students may complete a concentration.

## CORE CURRICULUM

- ACC 401 Corporate Financial Accounting*
- FIN 402 Capital Budgeting and Corporate Objectives*
- GBA 411 Business Modeling*
- GBA 412 Data Analytics*
- OMG 402 Operations Management*
- STR 401 Managerial Economics*
- CIS 401 Information Systems For Management
- MKT 402 Marketing Management

*The first six core courses listed are taken as a cohort; the three remaining courses (CIS401, MKT402, and STR403/STR421) may be completed as non-matriculated courses or as part of the matriculated courses schedule. Core courses must be completed during the first six terms of the program.

## EXAMPLE PROGRAM SCHEDULE

### YEAR 1

<table>
<thead>
<tr>
<th>COURSES</th>
<th>FALL START</th>
<th>SPRING START</th>
</tr>
</thead>
<tbody>
<tr>
<td>STR 401 Managerial Economics</td>
<td>FALL</td>
<td>SPRING</td>
</tr>
<tr>
<td>ACC 401 Corporate Financial Accounting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GBA 412 Data Analytics</td>
<td>WINTER</td>
<td>SUMMER</td>
</tr>
<tr>
<td>FIN 402 Capital Budgeting and Corporate Objectives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GBA 411 Business Modeling</td>
<td>SPRING</td>
<td>FALL</td>
</tr>
<tr>
<td>Elective or Core</td>
<td>SUMMER</td>
<td>WINTER</td>
</tr>
<tr>
<td>OMG 402 Operations Management</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### YEAR 2

<table>
<thead>
<tr>
<th>COURSES</th>
<th>FALL START</th>
<th>SPRING START</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective or Core</td>
<td>FALL</td>
<td>SPRING</td>
</tr>
<tr>
<td>Elective</td>
<td>WINTER</td>
<td>SUMMER</td>
</tr>
<tr>
<td>Elective or Core</td>
<td>SPRING</td>
<td>FALL</td>
</tr>
<tr>
<td>Elective</td>
<td>SUMMER</td>
<td>WINTER</td>
</tr>
</tbody>
</table>

### YEAR 3

<table>
<thead>
<tr>
<th>COURSES</th>
<th>FALL START</th>
<th>SPRING START</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>FALL</td>
<td>SPRING</td>
</tr>
<tr>
<td>Elective</td>
<td>WINTER</td>
<td>SUMMER</td>
</tr>
</tbody>
</table>

All PMBA students work with their academic advisors to construct a personalized program of study.

While the study grids contained in this book are current for the 2018-2019 academic year, the arrangement of courses is subject to change.
PART-TIME MASTER OF SCIENCE IN BUSINESS ADMINISTRATION WITH A CONCENTRATION IN MEDICAL MANAGEMENT

Management Tools
Simon offers a part-time MSB program in Medical Management to provide physicians, hospital administrators, and medical professionals with management tools and an understanding of the key business issues that confront health care providers. The part-time structure of the program allows health care professionals to maintain their career and personal commitments while in the program. The program focuses on developing health care managers and leaders who will be confident in making key financial, operational, and strategic decisions for their organizations.

Logistics and Time Requirements
The program is specifically designed to accommodate the busy schedules of physicians and medical professionals. The program consists of 30 credits and is offered on a part-time basis only.
The medical management student enrolls in a core class that meets one night per week. During the same term, the student also takes a class on three separate weekends to cover the health care component of the module.

Curriculum
The curriculum is designed around four core areas of management that are especially relevant to health care:

- Development of marketing and business plans
- Quantifying strategy through financial analysis
- Implementing strategy by efficiently managing operations; and
- Building efficient organizations for the long run, through intelligent work design, performance assessment, and employee incentives.

The curriculum is presented in a unique format that delivers the necessary depth of core business material while simultaneously applying that material to the health care industry. This is accomplished through the pairing of Simon’s core courses with health care management courses that develop applications of the core material. Each pair of courses (module) is delivered and taken simultaneously.

PART-TIME MS BA: MEDICAL MANAGEMENT

<table>
<thead>
<tr>
<th>FALL TERM</th>
<th>WINTER TERM</th>
<th>SPRING TERM</th>
<th>SUMMER TERM</th>
<th>FALL TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSM 450</td>
<td>HSM 425</td>
<td>HSM 437</td>
<td>STR 403</td>
<td>HSM 455*</td>
</tr>
<tr>
<td>Accounting, Economics and Finance for MS Students</td>
<td>Managerial Accounting for Health Care Organizations</td>
<td>Managing Health Care Operations</td>
<td>Organization and Strategy</td>
<td>Health Care Practicum I</td>
</tr>
<tr>
<td>HSM 451</td>
<td>HSM 452</td>
<td>HSM 453</td>
<td>HSM 454</td>
<td>HSM 456*</td>
</tr>
<tr>
<td>Health Care Strategy and Business Plan Development</td>
<td>Health Care Accounting and Finance</td>
<td>Health Care Operations</td>
<td>Leading Health Care Organizations</td>
<td>Health Care Practicum II</td>
</tr>
</tbody>
</table>

All courses are 3-credit hours unless indicated otherwise.
Degree Total Credit Hours: 30

*Students receive a grade of I (incomplete) in these courses which extend into the next term. The incomplete will be replaced with a grade upon completion of the courses.
CONCENTRATIONS - MBA

BUSINESS SYSTEMS CONSULTING
(5 courses)
Simon’s concentration in Business Systems Consulting offers a cutting-edge, highly focused program designed to equip students with the skills and experience necessary to excel in the business systems consulting enterprise. While students will be exposed to a variety of career possibilities during the course of their studies, most students are likely to assume a position in the business systems practice of one of the major consulting firms.

Required core course:

CIS 461. Strategy and Business Systems Consulting Practicum (OMG 461)

plus either
CIS 415. Business Process Analysis and Design
or
OMG 415. Process Improvement

Three other electives must be selected from the following list:

ACC 438. Auditing II—Auditing and Information Systems
CIS 416. Advanced Information Technology
CIS 418. Advanced Business Modeling and Analysis Using Spreadsheets
CIS 440. Digital Business Strategy
CIS 446. Financial Technology (FinTech) (FIN 446)
MKT 436. Marketing Analytics
MKT 437. Digital Marketing Strategy
OMG 411. Supply Chain Analytics
OMG 412. Service Management
OMG 413. Operations Strategy
OMG 416. Project Management
OMG 437. Managing Health Care Operations (HSM 437)
STR 421. Competitive Strategy

COMPETITIVE AND ORGANIZATIONAL STRATEGY (STR)
Simon Business School offers two tracks within the Competitive and Organizational Strategy concentration—The Strategy and Organizations track and the Pricing track. Students can choose either of these two tracks to satisfy the requirements of the Competitive and Organizational Strategy concentration.

Strategy and Organizations Track
(5 courses)
The Strategy and Organizations track builds on the economic fundamentals introduced in STR 401 and STR 403. Its cross-functional and integrative curriculum provide a sound basis for the evaluation and implementation of a broad range of business strategies and policies. Topics included are: policies internal to the firm such as compensation, performance evaluation, job design and aspects of hiring; strategic interaction among industry competitors, including pricing and advertising; and the influence of external factors such as the regulatory and macroeconomic environments.

Skills offered by the STR curriculum will develop the student’s ability to identify the root causes of business problems and sources of new opportunities. The student will respond to these problems and opportunities with innovative solutions and strategies based upon the School’s economics-based approach to management. The concentration holds particular interest to those seeking careers in consulting, general management or industry analysis, as well as those seeking an integrative complement to concentrations in other functional areas. Particular emphasis goes to developing the student’s capacity to deal with unstructured business situations.

Required core course:
STR 421. Competitive Strategy

Must complete a minimum of four additional courses in the STR area:

STR 422. Game Theory for Managers
STR 423. Pricing Policies (MKT 414)
STR 424. Human Resource Strategy
STR 427. Organizational Behavior
STR 429. Advanced Competitive Strategy
STR 430. Health Sciences Management and Strategy
STR 432. B2B Pricing (MKT 438)
STR 436. Advanced Pricing (MKT 439)
STR 440. Corporate Governance
STR 441. Negotiation Theory and Practice: Bargaining for Value
STR 442. Special Topics in Strategy (not offered every year)
STR 461. Strategy and Business Systems Consulting Practicum

Pricing Track
(6 courses)
The Pricing Track is offered for those students who desire a state-of-the-art training in pricing and for those interested in pursuing a career in pricing. The track resides within both the Competitive and Organizational Strategy and the Marketing concentrations and leverages School’s strengths in economics and marketing analytics.

The Pricing Track is offered by the Competitive and Organizational Strategy and Marketing faculty at the Simon School to enable students to integrate their knowledge of analytic marketing, cost accounting, finance, managerial economics, operations and strategy through the application of pricing optimization tools and technologies to deliver profitable pricing strategies for their organizations.

A student wishing to take the Pricing Track should complete the following five required courses:

STR 423. Pricing Policies (MKT 414)
(Should be taken before courses listed below)
STR 438. B2B Pricing (MKT 438)
or
STR 439. Advanced Pricing (MKT 439)
STR 421. Competitive Strategy
MKT 412. Marketing Research
MKT 436. Marketing Analytics

In addition to the required courses, one additional course is required from the list below:

ACC 410. Managerial Accounting and Performance Measurement
ENT 435. Negotiation Theory and Practice: Bargaining for Value
STR 422. Game Theory for Managers
STR 438. B2B Pricing (MKT 438)
or
STR 439. Advanced Pricing (MKT 439)

(COUNTING only the one not taken to satisfy the above list)

A student completing these courses satisfies the requirements for both the Competitive and Organizational Strategy and the Marketing concentrations.

Courses listed in the catalog are not guaranteed to be offered during 2018-19. Please refer to the course offerings for the academic year schedule.
COMPUTERS AND INFORMATION SYSTEMS (CIS)

(4 courses)
The Computers and Information Systems area enjoys international recognition for its innovative research and teaching programs. The CIS concentration, taken by itself or combined with another functional concentration such as accounting, finance or operations management, prepares students to manage the broad array of information-systems issues that arise in every organization or to act as successful management consultants.

The concentration focuses on the leading approaches used in the design and development of effective business processes that leverage information technology. It also emphasizes the major business issues that arise in choosing information technologies, designing information processes for improving the effectiveness of specific applications and using enterprise information technology for gaining competitive benefits. The concentration develops the necessary skills for managing in the current environment of rapid technological evolution, increased competition, and global markets. The placement of Simon CIS students in retail or investment banks, Fortune 500 manufacturers, and international consulting companies has been very strong. Typical CIS careers include electronic commerce leadership, the management of corporate information systems, business process re-engineering, and general management consulting.

In the required courses, students learn how to analyze the fundamental subjects of business information and decision processes in organizations, and the resulting economic and technological trade-offs. In the advanced electives, students can study various aspects of electronic commerce, business process design, advanced information technologies, financial-information systems and business data communications systems.

A technical background prior to entering the MBA program is not a prerequisite to success in the CIS concentration.

Required core courses, plus:

CIS 413. Managing Digital Products & Platforms
CIS 440. Digital Business Strategy
CIS 446. Financial Technology (FinTech) (FIN 446)
MKT 436. Marketing Analytics
MKT 437. Digital Marketing Strategy

CORPORATE ACCOUNTING (ACC)

(5 courses)
Corporations actively recruit MBA accounting majors for positions in the offices of controller, treasurer and internal auditing, as well as in accounting departments. Many corporate finance positions also require strong corporate accounting backgrounds.

Required core courses, plus:

ACC 411. Applied Financial Statement Analysis with Data Analytics
ACC 423. Financial Reporting I
ACC 424. Financial Reporting II

Plus two courses selected from this list:

ACC 410. Managerial Accounting and Performance Measurement
ACC 417. Auditing
ACC 418. Taxes and Business Strategy
ACC 419. Positive Accounting Research Concepts and Empirical Analysis Tools

FIN 411. Investments
FIN 413. Corporate Finance

Students interested in pursuing CPA licensure should contact Professor Heidi Tribunella for advice on which coursework they require to comply with the 150-credit hours educational requirements for the CPA. Students will need to provide transcripts for all previous education obtained prior to attending the Simon School.

ENTREPRENEURSHIP (ENT)

(5 courses)
Entrepreneurship education is becoming increasingly important given the current global economic climate. The Entrepreneurship concentration allows students to draw from a variety of carefully selected courses to become a business generalist, well versed in organizing and managing resources. Simon has a legacy of educating entrepreneurs. Graduates with this concentration have started their own ventures or have pursued “intrapreneurial” careers with major corporations. Students often combine this concentration with finance or marketing to further enhance their education. This is especially true for those pursuing investment banking and mergers and acquisitions where the entrepreneurship knowledge is very useful.

Required core courses, plus:

ENT 444. Entrepreneurial Finance (FIN 444)

Plus one of:

ENT 423. New Venture Development and Managing for Long Term Success
ENT 425. Technical Entrepreneurship

Plus three courses selected from this list:

ACC 411. Financial Statement Analysis with Data Analytics
ENT 422. Generating and Screening Entrepreneurial Ideas
ENT 442A. Special Topics in Entrepreneurship: Fundamentals of Social Entrepreneurship
ENT 442C. Special Topics in Entrepreneurship: Practicum in Urban Entrepreneurship
ENT 424. Projects in Entrepreneurship
ENT 426. Technology Transfer and Commercialization
ENT 427. Practicum in Technology Transfer and Commercialization
ENT 431. Legal and Tax Considerations of New Ventures (BPP 431)
ENT 432. Basic Business Law (BPP 432)
ENT 435. Negotiation Theory and Practice: Bargaining for Value
FIN 433. Cases in Finance
FIN 444A. Special Topics in Finance: Real Estate
MKT 412. Marketing Research
MKT 414. Pricing Policies (STR 423)
MKT 432. New Product Strategy
OMG 461. Strategy and Business Systems Consulting Practicum (CIS 461)
STR 421. Competitive Strategy

Courses listed in the catalog are not guaranteed to be offered during 2018-19. Please refer to the course offerings for the academic year schedule.
FINANCE (FIN)  
(5 courses)  
Simon is best known for its research and scholarship in the area of finance. This concentration provides students with state-of-the-art techniques for financial analysis. Students learn to formulate and solve important corporate finance problems and to obtain information from the many databases on financial markets.  
Required core courses, plus:  
FIN 411. Investments  
FIN 413. Corporate Finance  
Plus three courses selected from this list:  
ACC 411. Applied Financial Statement Analysis with Data Analytics  
ACC 423. Financial Reporting I  
ACC 424. Financial Reporting II  
BPP 426. Macroeconomics  
FIN 423. Corporate Financial Policy and Control  
FIN 424. Options and Futures Markets  
FIN 430. Risk Management  
FIN 433. Cases in Finance  
FIN 434. Investment Management and Trading Strategies  
FIN 441A. Special Topics in Finance: Real Estate  
FIN 441B. Special Topics in Finance: Private Equity  
FIN 442. International Economics and Finance (BPP 442)  
FIN 444. Entrepreneurial Finance (ENT 444)  
FIN 446. Financial Technology (FinTech) (CIS 446)  
FIN 448. Fixed-Income Securities  
FIN 511. Advanced Financial Economics  
HSM 431. Applications of Corporate Finance and Governance to Health Care  
STR 440. Corporate Governance

HEALTH SCIENCES MANAGEMENT (HSM)  
(5 courses)  
The Health Sciences Management concentration draws on the School’s proven strengths and directs them to a dynamic industry. This concentration focuses primarily on two management issues: ongoing operations and strategic planning. This is in contrast to the traditional Master of Public Health programs which generally focus on public policy issues. The program especially suits future health sciences consultants and front-line managers in health maintenance organizations, hospitals, insurance companies, and pharmaceutical firms.  
Required core courses, plus five additional courses as follows:  
At least two of:  
HSM 420. Business Economics of the Health Care Industry  
HSM 430. Health Sciences Management and Strategy (STR 430)  
HSM 431. Applications of Corporate Finance and Governance to Health Care  
HSM 437. Managing Health Care Operations (OMG 437)  
HSM 440. Evolving Medical Markets  
The remaining three courses can be taken from the list below:  
ACC 411. Financial Statement Analysis with Data Analytics  
CIS 415. Business Process Analysis and Design  
HSM 425. Managerial Accounting for Health Care Organizations (ACC 445)  
OMG 412. Service Management  
STR 421. Competitive Strategy  
STR 424. Human Resource Strategy  
Courses taught at the University of Rochester School of Medicine and Dentistry or the Department of Community and Preventive Medicine may be eligible for credit towards your MBA Health Sciences Management elective. Please contact your area coordinator for details.

INTERNATIONAL MANAGEMENT  
The International Management concentration gives students opportunities to apply various disciplines to international markets. Differences in legal environments, currencies, and workplace practices among countries provide both challenges and problems for businesses operating in the global marketplace. One of two options will satisfy the concentration. The International Management option includes one required course, one elective and one term (minimum of six credits) in an approved International Exchange Program.

INTERNATIONAL MANAGEMENT (ITL)  
(4 courses)  
Required core courses, plus:  
FIN 442. International Economics and Finance (BPP 442)  
Plus three courses selected from this list:  
BPP 426. Macroeconomics  
ENT 435. Negotiation Theory and Practice: Bargaining for Value  
GBA 494. Foreign Language Transfer Credit (three credits)  
MKT 449. Global Marketing Strategy  
OMG 413. Operations Strategy  
STR 421. Competitive Strategy  
STR 424. Human Resource Strategy

INTERNATIONAL MANAGEMENT EXCHANGE (ITLE)  
Two courses at the Simon School, plus International Exchange Program.  
FIN 442. International Economics and Finance (BPP 442)  
Plus one course selected from this list:  
BPP 426. Macroeconomics  
ENT 435. Negotiation Theory and Practice: Bargaining for Value  
ENT 486. Management of Technology  
GBA 494. Foreign Language Transfer Credit (three credits)  
MKT 449. Global Marketing Strategy  
OMG 413. Operations Strategy  
STR 421. Competitive Strategy  
STR 424. Human Resource Strategy  
Plus one term in one of the approved International Exchange Programs (GBA 492—six credits; GBA 493—nine credits).

Courses listed in the catalog are not guaranteed to be offered during 2018-19. Please refer to the course offerings for the academic year schedule.
MARKETING (MKT)
Marketing knowledge and skills have become a necessity in today’s increasingly competitive global business environment. Regardless of the kind of business—consumer goods or industrial goods, financial services or the non-profit sector—success depends on satisfying the customer better than one’s competitors. The Marketing concentration prepares MBA students for these challenges. Alumni with Marketing concentrations now hold key positions in marketing management, research, and consulting. Specialized programs are offered to students interested in brand management. In addition, many students combine marketing with another discipline to round out their education. Popular combinations include marketing/finance, marketing/operations management, and marketing/electronic commerce.

The Marketing curriculum emphasizes the integration of applications with theory. Applications are introduced via cases, experiential exercises, guest speakers, and projects. Elective courses provide opportunities to pursue specific interests in marketing.

The Marketing concentration requirements consist of the required core courses and electives chosen to satisfy the additional requirements of one of the following three tracks—the Marketing Strategy track, the Brand Management track, or the Pricing track—specified below.

MARKETING STRATEGY TRACK
(5 courses)
The Marketing Strategy track emphasizes the use of marketing principles for developing and implementing a firm’s product-market strategies in the marketplace. Students in the Marketing Strategy track must take MKT 412 (Marketing Research), along with four elective courses from the following list. At least two of those electives must be from Group A.

Group A
- MKT 414. Pricing Policies (STR 423)
- MKT 432. New Product Strategy
- MKT 433. Advertising Strategy
- MKT 435. Channels Strategy

Group B
- HSM 440. Evolving Medical Markets
- MKT 431. Consumer Behavior
- MKT 436. Marketing Analytics
- MKT 437. Digital Marketing Strategy
- MKT 441. Brand Management
- MKT 442. Special Topics in Marketing
- MKT 448. Brand Strategy
- MKT 449. Global Marketing Strategy
- MKT 451. Consumer and Brand Research

BRAND MANAGEMENT TRACK
(5 courses)
For those students wishing to become brand/product managers in either the consumer or industrial products markets or in financial services, a unique Brand Management Track is offered.

Participation in the program requires taking MKT 412 (Marketing Research), MKT 441 (Brand Management) and choosing three courses out of:
- MKT 414. Pricing Policies (STR 423)
- MKT 432. New Product Strategy
- MKT 433. Advertising Strategy
- MKT 435. Channels Strategy
- MKT 448. Brand Strategy

PRICING TRACK
(6 courses)
The Pricing track is offered for those students who desire a state-of-the-art training in pricing, and for those interested in pursuing a career in pricing. The track resides within both the Competitive and Organizational Strategy and the Marketing concentrations, and leverages our School’s strengths in economics and marketing analytics.

The Pricing Track is offered by the Competitive and Organizational Strategy and Marketing faculty at the School to enable students to integrate their knowledge of analytic marketing, cost accounting, finance, managerial economics, operations and strategy through the application of pricing optimization tools and technologies to deliver profitable pricing strategies for their organizations.

A student wishing to take the Pricing Track should complete the following five required courses:
- STR 423. Pricing Policies (MKT 414)
- STR 439. Advanced Pricing (MKT 439)
- STR 421. Competitive Strategy
- MKT 412. Marketing Research
- MKT 436. Marketing Analytics

In addition to the required courses, the school requires one additional course from the list below:
- ACC 410. Managerial Accounting and Performance Measurement
- ENT 435. Negotiation Theory and Practice: Bargaining for Value
- STR 422. Game Theory for Managers
- STR 439. Advanced Pricing (MKT 439)

A student completing these courses satisfies the requirements for both the Competitive and Organizational Strategy and the Marketing concentrations.

OPERATIONS MANAGEMENT
(4 courses)
Operations Management is concerned with the management of a firm’s physical, financial, and human resources with the objective of producing, distributing, and selling goods and services. Operations Management has become increasingly important due to renewed interest in productivity and the utilization of operations for competitive advantage.

Required core courses, plus four out of the following:
- OMG 411. Supply Chain Analytics
- OMG 412. Service Management
- OMG 413. Operations Strategy
- OMG 415. Process Improvement
- OMG 416. Project Management
- CIS 415. Business Process Analysis and Design

*Experience has shown that students pursuing a career in Operations Management benefit from taking additional courses such as STR 424 (Human Resource Strategy) or STR 427 (Organizational Behavior).
SPECIALIZATIONS - MBA

The current list of specializations offered to our MBA students was re-evaluated to provide more opportunities for students to specialize in areas to better meet requirements of current job markets. The specializations are focused to entry-level MBA positions, have a curricular and co-curricular content, and students will work closely with Admissions, Office of Student Engagement, and Career Management Center for consistent guidance for success in the academic coursework, co-curricular activities, and career goals.

<table>
<thead>
<tr>
<th>CONSULTING SPECIALIZATIONS</th>
<th>FINANCE SPECIALIZATIONS</th>
<th>MARKETING SPECIALIZATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strategy</td>
<td>Banking</td>
<td>Brand Management</td>
</tr>
<tr>
<td>Pricing</td>
<td>Asset Management</td>
<td>Product Management</td>
</tr>
<tr>
<td>Technology</td>
<td>Venture Capital &amp; Private Equity</td>
<td></td>
</tr>
<tr>
<td>Operations</td>
<td>Corporate Finance</td>
<td></td>
</tr>
</tbody>
</table>

**CONSULTING SPECIALIZATIONS**

**Strategy**
No required courses

**Choose 4:**
- STR403 Organization and Strategy
- STR422 Game Theory for Managers
- STR423/MKT414 Pricing Policies
- STR424 Human Resource Strategy
- STR429 Advanced Competitive Strategy
- STR/MKT439 Advanced Pricing
- STR440 Corporate Governance
- HSM420 Business Economics of the Health Care Industries

**Choose 3, including any from above:**
- ACC410 Managerial Accounting and Performance Measurement
- ACC411 Financial Statement Analysis with Data Analytics
- CIS415 Business Process Analysis and Design
- CIS418 Advanced Business Modeling and Analysis Using Spreadsheets
- GBA435 Negotiation Theory and Practice: Bargaining for Value
- FIN413 Corporate Finance
- FIN433 Cases in Finance
- ENT423 New Venture Development and Managing for Long Term Success
- MKT421 Advanced Marketing Strategy
- MKT432 New Product Strategy
- OMG413 Operations Strategy
- OMG415 Process Improvement
- MKT/STR438 B2B Pricing

**Pricing**
MKT414/STR423 Pricing Policies

**Choose 2:**
- MKT/STR438 B2B Pricing
- MKT/STR439 Advanced Pricing
- MKT440 Pricing Analytics
- STR422 Game Theory for Managers

**Choose 3, including any from above:**
- ACC410 Managerial Accounting and Performance Measurement
- GBA435 Negotiation Theory and Practice: Bargaining for Value
- HSM420 Business Economics of the Health Care Industries
- MKT412 Marketing Research
- MKT421 Advanced Marketing Strategy
- STR429 Advanced Competitive Strategy
### Technology
- CIS415 Business Process Analysis and Design
- CIS416 Advanced Information Technology
- CIS461 Strategy and Business Systems Consulting Practicum

**Choose 3:**
- ACC410 Managerial Accounting and Performance Measurement
- CIS/MKT437 Digital Marketing Strategy
- CIS413 Managing Digital Products and Platforms
- CIS417 Introduction to Business Analytics
- CIS418 Advanced Business Modeling and Analysis Using Spreadsheets
- CIS434 Social Media Analytics
- CIS440 Digital Business Strategy
- CIS/FIN446 Financial Technology
- OMG411 Supply Chain Analytics
- OMG412 Service Management
- OMG413 Operations Strategy
- OMG415 Process Improvement
- OMG416 Project Management

### Operations
- OMG415 Process Improvement
- OMG411 Supply Chain Analytics
- CIS461 Strategy and Business Systems Consulting Practicum
- ACC410 Managerial Accounting and Performance Measurement

**Choose 2:**
- CIS415 Business Process Analysis and Design
- CIS418 Advanced Business Modeling and Analysis Using Spreadsheets
- CIS440 Digital Business Strategy
- OMG412 Service Management
- OMG413 Operations Strategy
- OMG416 Project Management
- STR403 Organization and Strategy
- STR424 Human Resource Strategy

### Operations (continued)
- OMG415 Process Improvement
- OMG411 Supply Chain Analytics
- CIS461 Strategy and Business Systems Consulting Practicum
- ACC410 Managerial Accounting and Performance Measurement

**Choose 2:**
- CIS415 Business Process Analysis and Design
- CIS418 Advanced Business Modeling and Analysis Using Spreadsheets
- CIS440 Digital Business Strategy
- OMG412 Service Management
- OMG413 Operations Strategy
- OMG416 Project Management
- STR403 Organization and Strategy
- STR424 Human Resource Strategy

### Banking
- FIN411 Investments
- FIN413 Corporate Finance
- ACC411 Financial Statement Analysis with Data Analytics
- FIN430 Risk Management

**Choose 3:**
- ACC423 Financial Reporting I
- ACC424 Financial Reporting II
- BPP426 Macroeconomics
- FIN424 Options and Future Markets
- FIN433 Cases in Finance
- FIN/CIS446 Financial Technology (FinTech)
- FIN448 Fixed-Income Securities

### Asset Management
- FIN411 Investments
- ACC411 Financial Statement Analysis with Data Analytics
- FIN424 Options & Future Markets
- FIN434 Investment Management & Trading Strategy

**Choose 3:**
- FIN442 International Economics and Finance
- BPP426 Macroeconomics
- FIN418 Quantitative Finance with Python
- FIN441A Special Topics in Finance: Real Estate
- FIN448 Fixed-Income Securities
### FINANCE SPECIALIZATIONS (continued)

<table>
<thead>
<tr>
<th>Venture Capital and Private Equity</th>
<th>Corporate Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN411 Investments</td>
<td>FIN411 Investments</td>
</tr>
<tr>
<td>FIN413 Corporate Finance</td>
<td>FIN413 Corporate Finance</td>
</tr>
<tr>
<td>ACC411 Financial Statement Analysis with Data Analytics</td>
<td>ACC411 Financial Statement Analysis with Data Analytics</td>
</tr>
<tr>
<td>FIN/ENT444 Entrepreneurial Finance</td>
<td>ACC410 Managerial Accounting and Performance Measurement</td>
</tr>
<tr>
<td>FIN441B Special Topics in Finance: Private Equity</td>
<td>FIN433 Cases in Finance</td>
</tr>
<tr>
<td><strong>Choose 3:</strong></td>
<td>Choose 3:</td>
</tr>
<tr>
<td>ACC423 Financial Reporting I</td>
<td>ACC418 Taxes and Business Strategy</td>
</tr>
<tr>
<td>CIS413 Managing Digital Products and Platforms</td>
<td>ACC423 Financial Reporting I</td>
</tr>
<tr>
<td>ENT423 New Venture Development and Managing for Long Term Success</td>
<td>ACC424 Financial Reporting II</td>
</tr>
<tr>
<td>FIN424 Options and Future Markets</td>
<td>FIN442 International Economics and Finance</td>
</tr>
<tr>
<td>FIN433 Cases in Finance</td>
<td>FIN424 Options and Future Markets</td>
</tr>
<tr>
<td>FIN/CIS446 Financial Technology</td>
<td>STR440 Corporate Governance</td>
</tr>
<tr>
<td>STR440 Corporate Governance</td>
<td></td>
</tr>
</tbody>
</table>

### MARKETING SPECIALIZATIONS

<table>
<thead>
<tr>
<th>Brand Management</th>
<th>Product Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT412 Marketing Research</td>
<td>MKT412 Marketing Research</td>
</tr>
<tr>
<td>MKT414/STR423 Pricing Policies</td>
<td>MKT414/STR423 Pricing Policies</td>
</tr>
<tr>
<td>MKT421 Advanced Marketing Strategy</td>
<td>MKT421 Advanced Marketing Strategy</td>
</tr>
<tr>
<td>MKT440 Pricing Analytics</td>
<td>MKT432 New Product Strategy</td>
</tr>
<tr>
<td>MKT441 Brand Management</td>
<td>MKT440 Pricing Analytics</td>
</tr>
<tr>
<td><strong>Choose 2:</strong></td>
<td>Choose 2:</td>
</tr>
<tr>
<td>MKT432 New Product Strategy</td>
<td>CIS413 Managing Digital Products &amp; Platforms</td>
</tr>
<tr>
<td>MKT433 Advertising Strategy</td>
<td>CIS417 Introduction to Business Analytics</td>
</tr>
<tr>
<td>MKT435 Channels Strategy</td>
<td>CIS/MKT437 Digital Marketing Strategy</td>
</tr>
<tr>
<td>CIS/MKT437 Digital Marketing Strategy</td>
<td>ENT423 New Venture Development and Managing for Long Term Success</td>
</tr>
<tr>
<td>MKT/STR439 Advanced Pricing</td>
<td>GBA435 Negotiation Theory and Practice: Bargaining for Value</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MKT/STR439 Advanced Pricing</td>
</tr>
<tr>
<td></td>
<td>MKT433 Advertising Strategy</td>
</tr>
<tr>
<td></td>
<td>MKT436 Marketing Analytics</td>
</tr>
<tr>
<td></td>
<td>STR403 Organization and Strategy</td>
</tr>
</tbody>
</table>

22
Students will also have the option to complete a minor consisting of 4 courses in areas that are either cross-functional or functional (see chart below). Most functional minors are contained in one or more specializations. Students fulfilling a specialization (e.g., Banking) do not in addition earn the Minor for the respective function (e.g., Finance). Thus, except for Accounting, functional minors are intended for students who do not complete a specialization in the same functional area.

<table>
<thead>
<tr>
<th>CROSS-FUNCTIONAL MINOR</th>
<th>FUNCTIONAL MINOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytics</td>
<td>Accounting</td>
</tr>
<tr>
<td>Entrepreneurship</td>
<td>Finance</td>
</tr>
<tr>
<td>Leadership</td>
<td>Marketing</td>
</tr>
<tr>
<td>Global Business</td>
<td>Consulting: Strategy and Pricing</td>
</tr>
<tr>
<td>Health Sciences Management</td>
<td>Consulting: Operations and Technology</td>
</tr>
</tbody>
</table>

**MINORS**

**CHOOSE ANY 4 OF THE COURSES LISTED UNDER EACH MINOR**

### ANALYTICS
- CIS417 Introduction to Business Analytics
- CIS418 Advanced Business Modeling and Analysis Using Spreadsheets
- CIS432 Predictive Analytics Using Python
- CIS434 Social Media Analytics
- FIN418 Quantitative Finance with Python
- GBA464 Programming for Analytics
- MKT436 Marketing Analytics
- MKT440 Pricing Analytics

### ENTREPRENEURSHIP
- ENT422 Generating and Screening Entrepreneurial Ideas
- ENT423 New Venture Development and Managing for Long Term Success
- ENT425 Technical Entrepreneurship
- ENT432 Basic Business Law
- ENT/FIN444 Entrepreneurial Finance
- GBA435 Negotiation Theory and Practice: Bargaining for Value

### LEADERSHIP
- STR403 Organization and Strategy
- STR427 Organizational Behavior
- STR440 Corporate Governance
- STR442D Leading Organizational Change
- GBA435 Negotiation Theory and Practice: Bargaining for Value
- GBA441 Business Ethics & Corporate Social Responsibility
- GBA442C Elements of Leadership
- OMG415 Process Improvement
- STR/MKT438 B2B Pricing

### ACCOUNTING
- ACC410 Managerial Accounting and Performance Measurement
- ACC411 Financial Statement Analysis with Data Analytics
- ACC418 Taxes and Business Strategy
- ACC423 Financial Reporting I
- ACC424 Financial Reporting II

### FINANCE
- FIN411 Investments
- FIN413 Corporate Finance
- FIN418 Quantitative Finance with Python
- FIN424 Options and Future Markets
- FIN430 Risk Management
- FIN433 Cases in Finance
- FIN434 Investment Management & Trading Strategy
- FIN441A Special Topics in Finance: Real Estate
- FIN441B Special Topics in Finance: Private Equity
- FIN442 International Economics and Finance
- FIN/ENT444 Entrepreneurial Finance
- FIN/CIS446 Financial Technology (FinTech)
- FIN448 Fixed-Income Securities
- BPP426 Macroeconomics
- STR440 Corporate Governance
GLOBAL BUSINESS
BPP426  Macroeconomics
ENT442X  International Business (Israel)
FIN442X  International Finance (Switzerland)
FIN442  International Economics and Finance
GBA442X  Doing Business in South Africa
MKT449  Global Marketing Strategy

HEALTH SCIENCES MANAGEMENT
HSM420  Business Economics of the Health Care Industry
HSM425  Managerial Accounting for Health Care Organizations
HSM/STR430  Health Sciences Management and Strategy
HSM440  Evolving Medical Markets
HSM452  Health Care Accounting and Finance
HSM454  Leading Health Care Organizations

MARKETING
MKT412  Marketing Research
MKT414  Pricing Policies
MKT431  Consumer Behavior
MKT432  New Product Strategy
MKT433  Advertising Strategy
MKT435  Channels Strategy
MKT436  Marketing Analytics
MKT437  Digital Marketing Strategy
MKT438  B2B Pricing
MKT439  Advanced Pricing
MKT440  Pricing Analytics
MKT441  Brand Management
MKT444  B2B Marketing
MKT448  Brand Strategy
MKT449  Global Marketing Strategy
MKT451  Consumer and Brand Research
MKT465  Marketing Projects

CONSULTING: STRATEGY AND PRICING
STR403  Organization and Strategy
STR422  Game Theory for Managers
STR423/MKT414  Pricing Policies
STR424  Human Resource Strategy
STR429  Advanced Competitive Strategy
STR440  Corporate Governance
STR/MKT438  B2B Pricing
STR/MKT439  Advanced Pricing

CONSULTING: OPERATIONS AND TECHNOLOGY
CIS413  Managing Digital Products and Platforms
CIS415  Business Process Analysis and Design
CIS416  Advanced Information Technology
CIS417  Introduction to Business Analytics
CIS418  Advanced Business Modeling and Analysis Using Spreadsheets
CIS434  Social Media Analytics
CIS440  Digital Business Strategy
OMG411  Supply Chain Analytics
OMG412  Service Management
OMG413  Operations Strategy
OMG415  Process improvement
OMG416  Project Management
SPECIALIZED-DEGREE PROGRAMS

Simon offers programs that allow students to receive a first-rate business education tailored to their specific needs. In addition to the Full- and Part-Time MBA Programs, a few other opportunities are available to students who wish to pursue coursework within a more specialized context of business management.

MD/MBA PROGRAM

Along with Simon, the School of Medicine and Dentistry offers a combined MD/MBA degree program in Health Sciences Management. This program is designed to prepare physician managers who can respond intelligently, effectively, and creatively to the changing health care services industry. Only candidates with exceptional promise and academic records will be considered.

To participate in this program, students must apply to, and be accepted by both the School of Medicine and Dentistry and Simon Business School. Students are also required to take both the MCAT and GMAT/GRE exams. The program takes five years to complete—taken separately, the MD is four years and the MBA is one year. Students start the program at the Simon School for the first-year core courses and the majority of electives, and then move to the MD program on a full-time basis, completing the remaining Simon electives in their third and fourth years of medical school.

For application information, contact:

Pat Samuelson
Director of Admissions
University of Rochester
School of Medicine and Dentistry
601 Elmwood Avenue
Box 601A
Rochester, N.Y. 14642-8603
(585) 275-4542
E-mail: pat_samuelson@urmc.rochester.edu

or

Andrew Brayda
Senior Associate Director of Admissions
Simon Business School
245 Gleason Hall
Rochester, N.Y. 14627-0107
(585) 275-3533
E-mail: andrew.brayda@simon.rochester.edu

TECHNICAL ENTREPRENEURSHIP AND MANAGEMENT (TEAM) MS PROGRAM

The one-year TEAM master’s degree program is administered by the Ain Center for Entrepreneurship. This program is designed for students with an engineering, science, or mathematics undergraduate degree, who wish to pursue a master’s level technical education in combination with business and leadership courses. TEAM could also be considered a 4-1 program for University of Rochester undergraduate engineering students.

Students accepted into the TEAM program may choose any technical cluster, such as optics, energy and the environment, computer science, biomedical engineering, chemical engineering, electrical and computer engineering, mechanical engineering, or materials science. Students will simultaneously be taking courses at Simon and the Hajim School of Engineering and Applied Sciences.

Requirements include:

• Three core management courses at Simon (one of which is a business plan development course)
• Three technical courses
• One additional course: either a technical class or a business elective
• A capstone practicum

To be considered for this program, students must take either the GRE or GMAT exam.

The master of science degree will be conferred by the Hajim School of Engineering and Applied Sciences.

For application information, contact:

Andrea Barrett
Executive Director
University of Rochester
Ain Center for Entrepreneurship
1-211 Carol Simon Hall
Box 270360
Rochester, N.Y. 14627-0360
(585) 276-3500
E-mail: andrea.barrett@rochester.edu
Website: www.rochester.edu/team
INTERNATIONAL EXCHANGE PROGRAMS

We believe a rigorous MBA program can and should be eye-opening on many levels. You will be encouraged to explore and focus as never before to gain a more profound understanding of what business means in the world, the leader you can be, and the impact you create. Part of expanding your understanding of the global business marketplace is to see it up close. We offer international exchange programs in Finland, Germany, Japan, and Mexico for the winter term of the second year of the MBA program.

PARTNER SCHOOLS:
- Finland: Aalto – Helsinki
- Germany: WHU – Düsseldorf
- Japan: GSIM – Minamiuonuma
- Mexico: IPADE – Mexico City

DETAILS:
- Tuition cost to the partner school is covered by Simon tuition, including any financial aid received by Simon
- Application process begins in spring of student’s first year. Placement is NOT guaranteed, as there is a limit (usually 2 - 3 students per school).
- Students are required to submit academic objectives and a job search plan for while they are away. This includes a mandatory meeting with a CMC Advisor and Academic Advisor. Their application is reviewed in the Spring term.
- Students must be in good standing academically.
- Applications to the partner schools are due in early fall of student’s second year.
- Students are responsible for additional costs, including flights, local travel, housing, food, books, university fees, health insurance, and mobile phone carrier.

CREDITS:
- Full course load required (9 credits)
- Must receive passing grades at partner institution for transfer credit.
- Course description, syllabus, and transfer petition form all must be submitted to receive credit
- Most of our partner schools have different course credit systems than we do
  - Credit conversion must be watched carefully and calculate individually per school
- There is no transfer fee for international exchange

INTERNATIONAL IMMERSIONS

International Immersions are classes that bring both a corporate and cultural element to the coursework. Teaching occurs both in the US and in the destination country, and is focused on one of the core elements of Simon instruction. These immersions break down the ethnocentrism as students discover the infusion of culture and business in the daily practices of alumni, company owners, senior executives and entrepreneurs. International Immersions are set so travel will occur during winter and spring break and will not take away traditional class time.

OUR OPTIONS:

ISRAEL IMMERSION
ENT 442X. INTERNATIONAL BUSINESS PRACTICUM
This course is designed to provide students with a hands-on experiential learning opportunity for global entrepreneurship through a combination of lectures, a real-life business development project and learning about the Israeli entrepreneurial ecosystem. Students will be partnered with an Israeli startup that is looking to expand their markets served by penetrating the US market. The project will include following a consultative model, analyzing the markets and opportunities and presenting their recommendations to the client. Israel has built a stellar reputation for being one of the most innovative countries in the world and has the highest per capita number of startup companies in the world. Their citizens have a perseverant, take-charge approach to business, which has led a vast number of international conglomerates to base their R&D and New Product Development Centers in Israel. This class will introduce students to the Israeli culture and business climate along with multi-national corporations that have moved mission-critical centers and startup venture activities to Israel. The International Business Practicum will introduce students to Israel’s history, which will help them understand how Israel came to be what it is today.
SWITZERLAND IMMERSION
FIN 442X. INTERNATIONAL FINANCE
This course is designed to give students an immersive experience into Swiss culture, business and international finance. The three elements of this experience are classwork, cultural experiences and company visits. The classwork is taught both in the US and in Switzerland and focuses on elements of international finance and the macro and micro-effects on the Swiss and other international economies. Class sessions are held in Thun and business trips are scheduled to Swiss companies in Bern and Zurich where students hear directly from the company about economic influences discussed in class. Cultural experiences are designed to help understand how the public lives in Switzerland, including historic sites in Lucerne and towns in the Swiss Alps.

INDIA IMMERSION
BPP 442X. INTERNATIONAL MACROECONOMICS
Offered every other year, this course is designed to give students an immersive experience into the culture in India, business practices, traditions, and in-India coursework to support experiences. Class sessions held before departure will lay the foundation for monetary and policy effects in India and worldwide, leading to a richer experience when the students are immersed in the culture through company visits, interactions with local business owners and events including meals reflecting their culture. Students will attend classes in Delhi and Mumbai where local alumni and businesses will be encouraged to join, further enriching the experiential learning. The immersion will let the students experience the different business climates in New Delhi, Jaipur and Mumbai, as well as cultural adventures in Delhi and Mumbai, the splendor of the Taj Mahal and the Palace and marketplace in Jaipur.

SOUTH AFRICA IMMERSION
GBA 442X. DOING BUSINESS IN SOUTH AFRICA
Offered every other year, the South Africa International Immersion allows the students to experience corporate and cultural interactions that will change their perspectives on how business is done internationally and allow them to learn how business is done in South Africa. Through a combination of lectures, a real-life business analysis of a community revitalization and company meetings, the students will grow their understanding and appreciation for the cultural and community effect on business in South Africa. Students will examine a revitalized community and compare and contrast this live case study with the Rochester revitalization, presenting their findings to City of Rochester officials. Students will also experience the contrast of a safari and being housed near a watering hole, with the corporate world of Cape Town. Students will travel to Johannesburg, George and Cape Town. In addition to the cultural aspects of the tour, company visits, industry tours and alumni meetings will allow students to apply their learning to engage better with doing business in South Africa.
A course schedule showing offerings, times, and instructors for each term is available from the Simon Registrar’s Office prior to the start of each term.

ACCOUNTING

MASTERS LEVEL COURSES

ACC 401. CORPORATE FINANCIAL ACCOUNTING
Corporate financial accounting is concerned with the form and content of the information firms disclose to external parties (e.g., shareholders). In the United States, financial reporting is based on generally accepted accounting principles (GAAP) set by the Financial Accounting Standards Board (FASB). GAAP define the accounting methods and disclosure practices that firms select from when providing financial statements to external parties. This course covers these principles and other important financial reporting practices. The primary focus of the course is developing the skills required to interpret and analyze financial information, rather than the skills required to prepare financial statements. Upon completion of the course, students will appreciate how financial accounting information is used in contracts between parties (e.g., lenders and the firm) and to evaluate a firm’s past performance and potential future performance.

ACC 411. FINANCIAL STATEMENT ANALYSIS WITH DATA ANALYTICS
The objective of this course is to develop and sharpen your analytical ability to use financial information to perform various types of applied economic and financial analysis. Managers formulate a firm’s business strategy and make operating, investing, and financing policy decisions to implement that strategy. The outcomes of those decisions are reflected in the firm’s financial statements which, along with other financial information, are used by equity and debt analysts, investors, lenders, creditors, bondholders, loan officers, debt-rating agencies, and numerous other external parties to evaluate the firm’s current economic performance and to forecast its future economic performance. A key aspect of the course is the link between managers’ strategic decisions and the resulting performance that gets reflected in the firm’s financial statements. This course develops the analytical and technical skills and related applied analysis techniques required to perform a wide variety of economic analyses using financial information. Among other things, applied financial analysis requires knowledge of the various techniques used to analyze financial information such as common-size and trend analysis, ratio analysis, modeling the predictable cash flow effects of sales growth, models of financial distress, forecasting technologies, valuation models, as well as the ability to select and apply the appropriate techniques in a given economic setting. This course develops your ability to perform economic analysis in a wide variety of real-world settings using a number of different applied financial analysis techniques.
Prerequisites: ACC401 and FIN402

ACC 417. AUDITING
Auditing principles and procedures are examined. This course includes an analysis of auditing and its relationship with financial reporting with emphasis on the independent accountant’s attest function as well as the consideration of ethics, legal responsibility, security, technology, and regulatory influences. In addition, big financial data and the SEC’s idea system will be reviewed. Also, statistical sampling and the role of the internal auditors as well as compilation and review reports are discussed.
Prerequisite: ACC 401

ACC 418. TAXES AND BUSINESS STRATEGY
The goal of this course is to help students develop the tools required to identify, understand and evaluate tax-planning opportunities, develop a framework for understanding how taxes affect profitability and cash flow implications of business decisions, and develop the data gathering, mathematical and modeling skills needed to maximize the after-tax economic effects of those business decisions. Optimal strategic decision making requires that the often-significant tax consequences of strategic alternatives are effectively and explicitly accounted for. Ignoring the tax consequences of decisions will lead to suboptimal outcomes for the firm’s stakeholders. Effective tax planning (e.g., the integration of taxation impacts on strategic decisions) requires the planner to:

- Be able to identify and gather the relevant data to appropriately analyze and evaluate the tax implications of a proposed transaction for all parties to the transaction
- Consider not only explicit taxes (tax dollars paid directly to taxing authorities), but also implicit taxes (taxes paid indirectly in the form of lower before-tax rates of return on tax-favored investments)
- Recognize that taxes represent only one among many business costs: in the planning process, all costs must be considered, including the costly restructuring of the business necessary to implement some tax plans

While the course will introduce key tax rules and laws in areas where taxes typically play a large role in strategic alternatives, memorizing detailed tax laws and becoming a tax specialist is not a goal of the course. Tax rules and laws change over time and from jurisdiction to jurisdiction. Rather, it is a goal of this course to provide future managers with an analytical, mathematical, modeling and conceptual framework to incorporate tax rules into the strategic decision making process, regardless of the particular tax laws in effect at any given point in time or in any particular taxing jurisdiction.
After establishing a fundamental tax planning framework using the themes referenced above, the learning objectives of this course are, using differential equations, present value concepts and modeling software, to operationalize the established conceptual framework to real-life business decisions such as:

- Alternative investment opportunities
- Capital structure
- Compensation planning
- Organizational form
- Asset pricing
- Tax arbitrage
- Mergers and acquisitions
- Maximizing value of tax attributes
- International tax planning for multinational ventures

Prerequisites: ACC 401 and FIN 402

**ACC 419. POSITIVE ACCOUNTING RESEARCH CONCEPTS AND EMPIRICAL ANALYSIS TOOLS**

This course is designed to expose students to the conceptual role of financial accounting information in capital markets and to the analysis techniques used to document key empirical evidence in this research area. This is accomplished by surveying select areas of accounting research, introducing research design concepts, and by using statistical database tools to replicate key accounting research findings using actual financial accounting data.

Prerequisite: ACC 401

**ACC 423. FINANCIAL REPORTING I**

This course acquaints students with the conceptual and practical problems in measuring revenues and expenses, assets and liabilities. The principal objective is to make students proficient in assessing the financial position of a company, its cash flow, liquidity, capital structure, hidden liabilities, and reserves through an understanding of generally accepted accounting principles (GAAP). The course provides a practical overview of the structure of accounting and its relation to finance and economics that should continue to be valuable as the accounting environment changes.

Prerequisites: ACC 401 and FIN 402

**ACC 424. FINANCIAL REPORTING II**

This course addresses the accounting for mergers and acquisitions, foreign operations, and derivative financial instruments. Emphasis is placed on developing an appreciation of the forces shaping accounting, including the effects of organizational arrangements, information and taxes. The interdependency of the accounting methods, organizational structure, and tax decisions are investigated.

Prerequisites: ACC 401 and FIN 402

**ACC 433. ADVANCED BUSINESS LAW AND ETHICS**

(Same as BPP 433, a continuation of BPP 432)

Topics include: bankruptcy, real property, personal property, sales, secured transactions, negotiable instruments, insurance, trusts and estates and consumer protection. This course also includes discussions of ethics and professional responsibilities.

Prerequisites: BPP 432

**ACC 436. RESEARCH INTO PROFESSIONAL ACCOUNTING STANDARDS**

This course will cover the conceptual framework for standard-setting established by the Financial Accounting Standards Board (FASB). It will also review how to research financial accounting and reporting issues using the FASB Accounting Standards Codification. The research of financial accounting and reporting issues will be applied to professional accounting decisions in financial reporting, disclosure and other accounting decisions making. In addition, a comparison of US Generally Accepted Accounting Principles (US GAAP) and International Financial Reporting Standards (IFRS) will be included. The course concludes with a review of the impact of governmental and not-for-profit accounting standards on financial reporting.

Prerequisites: ACC 401 and ACC 423

**ACC 437. BASIC FEDERAL INCOME TAX ACCOUNTING**

This course introduces the federal tax system in the United States and will focus on specifics of federal tax code. It provides an overview of individual, partnership, corporate, gift and estate taxes. Detailed topics include, but are not limited to, gross income, deductions for adjusted gross income, deductions from adjusted gross income, taxable income, alternative minimum tax, certain tax credits, recognition of gains and losses, transactions between partners, Subchapter S Corporations, gift tax, and estate tax. Skills will be developed to research the tax code and I.R.S. rulings to solve tax issues.

Prerequisite: ACC 401

**ACC 438. AUDITING II—AUDITING AND INFORMATION SYSTEMS**

This course will focus largely on Sarbanes-Oxley compliance and internal control systems. Internal control systems will be covered in depth, with focus on internal controls in an information technology (IT) environment. The IT environment will be discussed from the perspectives of designing effective internal controls and auditing in an IT environment. The function of the internal audit department will be covered, as well as how external auditors can work with internal auditors.

Prerequisites: ACC 401

**ACC 439. ACCOUNTING ANALYTICS FOR FORENSICS**

According to the Kroll Global Fraud Report, 69% of business surveyed report suffering a financial loss as a result of fraud. This course is designed to give students skills in the area of fraud investigations. This course will delve into the analytical methodologies used during forensic accounting investigations and expose the student to how access and excel can be used in conjunction with analytics to provide evidence required in forensic accounting investigations. Throughout the different analytical topics, access and excel will be used.

**ACC 445. MANAGERIAL ACCOUNTING FOR HEALTH CARE ORGANIZATIONS**

(Same as HSM 425)

Costs for health services continue to rise faster than overall economic growth drawing ever-greater attention from employers, governments, and consumers. The front line of the cost battle is within the health services entities where decision making depends on accurate reporting of internal costs. This course focuses on how costs are reported and how to use this information to make decisions within the health services entity. The following topics will be examined within a health services setting: cost allocation, cost-volume-profit analysis, budgeting and variance analysis, and transfer pricing.

**PHD COURSES**

**ACC 501. SEMINAR IN ACCOUNTING**

(First-year PhD students are graded on a P/F basis. Second-year and later students receive a letter grade.)

A forum for the presentation, discussion, and critique of current accounting research papers where accounting faculty, PhD students, and outside speakers present working papers on current research topics. Students are expected
to actively participate in the discussion and critique of the papers presented. In weeks when accounting workshops/seminars are scheduled, accounting PhD students will meet as a group with a member of the accounting faculty before the seminar to discuss the paper. Since such meetings are designed to facilitate students’ active participation in the seminars, students are required to circulate a brief set of comments to the other class participants in advance of the meeting. Grading will be based on the quality of students’ contributions to the pre-seminar meetings as well as their contributions and participation in the actual workshops.

ACC 510. ACCOUNTING RESEARCH I

The natural starting point for the study of capital markets research in accounting begins with the relationship between accounting earnings and security returns. This course covers the evolution of research on the earnings-return relation from the seminal papers up through current research. Topics covered include the fundamental features of the contemporaneous earnings-return relation, the nature of association-type and event study-type investigations of the contemporaneous earnings-return relation, evidence on the lead-lag relation between security returns and accounting earnings, the asymmetric timeliness of accounting earnings, theoretical and empirical research on the role of conservatism in accounting earnings, international research on the characteristics and properties of the earnings-return relation, and capital market research on financial analysts’ earnings forecasts and stock recommendations. The course also covers the role of accounting information in corporate governance as well as how accounting interacts with the political process. Given the turnover of course materials from year-to-year, students are required to enroll in ACC 510 each year they are in residence.

ACC 511. ACCOUNTING RESEARCH II

This course covers a broad array of research topics currently being addressed at the interface between empirical research in accounting and finance. To reflect such research, the topics covered in the course change considerably from year-to-year. The course’s objectives and strategy consist not only of framing the state of the current debate in various areas of the literature, but also of identifying unaddressed and/or under-researched topics and issues. Topics covered recently by the course include the aggregate earnings-returns relation; cross-firm information transfers; the role of accounting information in debt and equity markets; voluntary disclosure strategies; the role of information intermediaries, such as the media, in the production of accounting information; and the role of economic uncertainty in the production and pricing of accounting information (among others). Given the turnover of course topics from year-to-year, students are required to enroll in ACC 511 each year they are in residence.

Prerequisite: ACC 510

ACC 512. ADVANCED TOPICS IN ACCOUNTING RESEARCH

This course (along with ACC 513) is the next step in the sequence of accounting seminars taken by the Ph.D. students. ACC 512 builds on the “classics” covered in prior seminars by applying the insights to topical areas of research interest. It focuses on international aspects of accounting research, such as the interaction between country-level institutional features and financial reporting outcomes, cross-border information flows, harmonization of financial reporting standards and its implications for actual outcomes (both reporting and economic). Given the turnover of course topics over time, students are required to enroll in ACC 512 each time the course is offered. This course alternates with ACC 513.

Prerequisites: ACC 510 and ACC 511

ACC 513: CONTEMPORARY TOPICS IN ACCOUNTING RESEARCH

In contrast to the international focus of ACC 512, ACC 513 focuses on the U.S. setting and in particular on new/emerging theories in financial economics. The course seeks to stimulate discussions on the implication of these theories for accounting research. Recent versions of the course focused on the feedback-effect of stock prices, where managers not only impound information into the stock price but also learn new information from their firms’ stock prices; and on asset-pricing anomalies and the role of financial accounting information in mitigating or exacerbating the prevalence of these market-pricing “irregularities”. Given the turnover of course topics over time, students are required to enroll in ACC 513 each time the course is offered. This course alternates with ACC 512. Prerequisites: ACC 510 and ACC 511

Prerequisites: ACC 510 and ACC 511
AEC 505. REAL ANALYSIS
The course introduces mathematical tools especially useful in economics, econometrics, and finance. Topics include a basic topology of the real line, sequences and series, limits, continuity, differential and integral calculus. Offered in the summer, primarily for entering doctoral students.

AEC 506. PROBABILITY THEORY
This course teaches Random Variable, Distribution, Independence, Transformations and Expectations; Common Families of Distributions; Multiple Random Variables, and Markov Chains. Offered in the summer, primarily for entering doctoral students.

AEC 510. PHD WORKSHOP IN APPLIED ECONOMICS
The workshop provides a forum for the presentation of ongoing and completed research projects by PhD students in the economics core. Third- and fourth-year PhD students are expected to participate actively.
Prerequisite: permission of the instructor

AEC 511. ADVANCED PRICE THEORY I
Provides a survey of the substance and methods of contemporary price theory for students preparing to do research. Generally, the course covers the economic behavior of individuals and firms in a competitive market setting. Individual behaviors examined include responses to price and income changes, intertemporal planning (e.g., saving), household production, labor supply, investment in human capital, search, and reactions to uncertainty about future assets and goods prices. For firms, the implications of value-maximization for input demands and output supplies are explored thoroughly. Managerial decisions related to multiple products, intertemporal production planning and uncertainty are explicitly modeled. Some extensions to monopoly behavior are considered. Finally, some implications of consumer and competitive firm behavior for industry (single market) and general equilibrium are examined. These include (for industry equilibrium) the technological determinants of industry responses (entry-exit, quantity changes, price changes) to economic shocks such as shifts in demand for the industry’s product. For general equilibrium, the first and second welfare theorems will be covered. This course follows the semester schedule.

AEC 513. INDUSTRIAL ORGANIZATION THEORY
This course provides an introduction to the theory and practice of industrial organization. Broad areas of application include static oligopoly models, two-stage games and games with infinite horizons. Concepts from game theory such as Nash equilibria, subgame perfect equilibria, and perfect Bayesian equilibria will be used as needed. Special topics may include: contracts, patents, licensing, bundling, tying, buyer-seller networks, switching costs, price discrimination, mergers and entry barriers.

AEC 514. GAME THEORY
This course teaches the tools of game theory and contract theory, and applies them to topics in industrial organization, organizational economics and other areas. Game theory is the study of strategic interaction among a small number of decision-makers. Nowadays, it is applied in almost any area of economics, as well as in related disciplines such as finance, accounting, marketing, and operations research. Contract theory is concerned with the optimal design of contracts (and at a larger scale, organizations) that define the "rules of the game" under which agents (such as a firm’s employees) interact. In this sense, it can be thought of as an extension of game theory. Contract theory is the methodological basis of much of modern organizational economics, but its methods are applied in many other contexts, too notably, finance. The course is organized by concepts and methods, but most time will be spent on applying them to a large variety of topics.

AEC 520. CAUSAL INFERENCE
The course will cover how to design compelling research, the focus of which is causal inference. The course covers the design of true experiments and concepts of validity (internal validity, external validity, replicability). The approach should follow the Rubin potential outcomes framework. The course then covers causal inference and related econometric methods in observational studies for cross-sectional, panel data, and time-series, and non-linear models including OLS, instrumental variables, heckman selection models, regression discontinuity designs, matched sample designs, granger causality, event studies, diff-in-diff, fixed effects, clustering standard errors, dynamic panel methods (e.g., Blundell and Bond 1998), and some issues in logit/probit/multinomial logit. Although the course will discuss many econometric techniques, the exception should be that students have already learned the mechanics of these methods, so that focus is on causal inference and its limitations in these methodologies.

AEC 523. MICRO-ECONOMETRIC MODELING: STATIC APPROACHES
This course introduces students to canonical modeling approaches for analyzing decision making by both firms and consumers, focusing on static environments. Central topics include demand estimation, models of strategic interaction, networks and platforms and auctions. Applications include firm pricing decisions, new product introductions, strategic entry and vertical relationships. The course generally includes coding assignments and student presentations, in addition to the weekly lectures on methods and applications.

AEC 524. MICRO-ECONOMETRIC MODELING: DYNAMIC APPROACHES
This course examines consumer and firm behaviors that involve inter-temporal trade-offs and as a result involve dynamic optimization on the part of both consumers and firms. It begins with an overview of dynamic programming methods, in both single and multi-agent settings, emphasizing methods that link estimation with computation. Single agent topics include models of capital replacement, dynamic demand, inventory models and salesforce management. Multi-agent topics include strategic innovation, learning by doing, demand smoothing, and product repositioning. A strong emphasis is placed on recent methods and frontier topics. The course generally includes coding assignments and several student presentations, in addition to weekly lectures.

APS 425. ADVANCED MANAGERIAL DATA ANALYSIS
The objective of this course is to provide a systematic way to organize and make use of quantitative information in business decision-making. The course builds on what students have learned in introductory statistics, extending that knowledge to include the situations frequently encountered in decision-making.
Prerequisites: GBA 412 or GBA 462
■ BUSINESS COMMUNICATIONS

MGC 401/461. PROFESSIONAL COMMUNICATION

This course establishes the conceptual foundation and the learning method for the MGC sequence. It anchors the course in two conceptual frameworks: the rhetorical principles of logic and persuasion, and the interactional approach to communication in groups and professional relationships. It introduces the teaching model for the course: speaking and writing assessments, case analyses and discussion, successive rounds of business presentations and writing assignments, and repeated practice in active listening, and giving and receiving performance feedback.

MGC 402/462. COMMUNICATING ANALYTICS

This course applies the principles of persuasion and logic of argument established in MGC 401/461 in successive rounds of presentation practice, coupled with peer and self-review. Presentations stem from analyses of business problems using the Simon problem-solving framework and make recommendations aimed at influencing decision makers in varying functions and at different levels. Students facilitate discussions of readings, give one team presentation, develop behavioral interview skills, and, as in all terms of MGC, give and receive feedback in both informal and formal ways.

MGC 403/463. TEAMWORK

This course applies the interactional concepts of group dynamics introduced in MGC 401/461 to team formation and performance, through focus on business cases and field projects. Foundational concepts in group dynamics, meeting management, intercultural communication, and conflict resolution are examined through the lens of team activity. Team projects culminate in presentations and written reports, with integrated processes for self and team evaluation.

MGC 411 INTERPERSONAL PERSUASION AND INFLUENCE

This course applies the concepts of persuasive communication to a widened range of workplace settings, including team projects in business case analysis and persuasion for decision makers; one-to-one and multi-party negotiations; and managerial interactions employing feedback for skill development and improved performance. The course culminates with identification of goals for improving individual communication competency as related to career progress.

■ BUSINESS ENVIRONMENT AND PUBLIC POLICY

Masters Level Courses

BPP 426. MACROECONOMICS

Macroeconomics is the study of how economies grow and fluctuate over time, and how they interact with one another. In this course, we discuss economic measurement, economic growth, and the business cycle. We also discuss the implication of modern theories of growth and fluctuation for the conduct of monetary policy and fiscal policy. There is a strong emphasis on the international linkage among economies and the implications of macroeconomics for the business environment.

BPP 431. LEGAL AND TAX CONSIDERATIONS OF NEW VENTURES

(Same as ENT 431)

(Offered at the discretion of the instructor)

This course surveys, from the entrepreneur’s perspective, legal and tax considerations that impact strategic choices in organizing, funding, staffing, governing, and operating new ventures. The course’s principal focus is on how to create and retain competitive advantage through the skillful ordering of legal affairs. Emphasis will be transactional and include analysis of such issues as the creation and protection of intellectual property, technology licensing, global expansion, and internet commerce. The course will include, as a context for applied learning, a term project involving the creation and evolution of a selected new venture opportunity.

BPP 432. BASIC BUSINESS LAW

(Same as ENT 432)

This course surveys the law of contracts, agency, and business associations – with the objective of developing familiarity with selected laws, regulations, legal principles, and legal processes that govern (a) efficient exchange, generally; and (b) how and in what ways managers and entrepreneurs organize and interact to facilitate exchange. Although emphasis will be on United States law, there will be selected reference throughout the course to issues related to international transactions and to pertinent differences in legal systems of countries outside the United States. The course has a distinct transactional focus, with heavy reliance upon contemporary cases, commercial practices, and issues. Particular attention will be given to the impact of the legal framework upon sound managerial decision-making, business risk management, commercial rights and responsibilities, and ultimately business valuation.

BPP 433. ADVANCED BUSINESS LAW AND ETHICS

Topics include: bankruptcy, real property, personal property, sales, secured transactions, negotiable instruments, insurance, trusts and estates and consumer protection. This course also includes discussions of ethics and professional responsibilities.

Prerequisite: BPP 432

BPP 442. INTERNATIONAL ECONOMICS AND FINANCE

(Offered at the discretion of the instructor)

(Also includes discussions of ethics and professional responsibilities)

Topics include: theories of international trade; exchange-rate regimes; the determination of exchange rates in a world of flexible exchange rates; the Euromarkets; the pricing of assets in open economies; international financial management and the theory of multinational corporations; foreign exchange exposure; analysis of currency forward, future, option and swap contracts; capital budgeting for foreign projects; and financing international trade.

Prerequisite: BPP 440

Recommended: BPP 441

BPP 442X. INTERNATIONAL MACROECONOMICS & INDIA IMMERSION

Offered every other year, this course is designed to give students an immersive experience into the culture in India, business practices, traditions, and in-India coursework to support experiences. Class sessions held before departure will lay the foundation for monetary and policy effects in India and worldwide, leading to a richer experience when the students are immersed in the culture through company visits, interactions with local business owners and events including meals reflecting their culture. Students will attend classes in Delhi and Mumbai where local alumni and businesses will be encouraged to join, further enriching the experiential learning. The immersion will let the students experience the different business climates in New Delhi, Jaipur and Mumbai, as well as cultural adventures in Delhi and Mumbai, the splendor of the Taj Mahal and the Palace and marketplace in Jaipur.
COMPETITIVE AND ORGANIZATIONAL STRATEGY
Michael Raith, Area Coordinator

MASTERS LEVEL COURSES

STR 401. MANAGERIAL ECONOMICS
The primary objective of the course is to train students to think in economic terms, to identify the relevant economic issue in a given situation, to separate the relevant from the irrelevant, and to analyze the implications of alternative actions. Another objective is to provide an increased understanding of markets. The course presents the basic analytical tools of microeconomics, particularly as those skills are relevant to managers. Important economic concepts used in subsequent courses, such as opportunity costs and a Nash Equilibrium, are covered. Applications of marginal analysis are stressed.

STR 403. ORGANIZATION AND STRATEGY
The course teaches how to approach and solve a large range of organizational problems from an analytical-economic perspective that is grounded in agency theory. It discusses in detail the assignment of decision rights (including centralization vs. decentralization of decisions), performance measurement, and incentives and rewards. These are the three elements of “organizational architecture,” the central framework of the course. Applications range from job-level incentive problems to broader questions about organizational structure and the boundaries of the firm (e.g., vertical integration). Throughout, the course emphasizes the complementarity of organizational policies and the importance of alignment between a firm’s internal organization and its strategy.
Prerequisite: STR 401 or GBA 461

STR 421. COMPETITIVE STRATEGY
Competitive strategy deals with the most significant decisions that companies make in the marketplace, including entry into a market, product positioning, pricing, investments, technology choice and acquisitions. This course provides tools and concepts for analyzing these decisions and for designing business strategies that help firms make above-normal profits in the long run. Throughout the course, there is an emphasis on how firms interact with existing or potential competitors and other parties in the market. The tools and concepts used to understand this interaction are partly those of the traditional field of Strategic Management, but more importantly those of modern microeconomics, especially the field of Industrial Organization.
The first half of the course looks at the “big picture” and covers industry analysis, value creation and competitive advantage, and integration and diversification decisions. The second half of the course focuses on strategic interaction among firms, and covers specific topics such as the dynamics of price competition in oligopolies, commitment strategies of firms, entry and exit, networks and standards, and technological competition. The course is largely case-based. About one third of all classes are lectures; the other two thirds are case discussions.
Prerequisite: STR 401

STR 422. GAME THEORY FOR MANAGERS
This course develops game-theoretic tools that can be used to provide both quantitative and qualitative prescriptions for profit-maximizing behavior in a variety of strategic settings. The basic concepts are introduced through applications to strategic settings that one encounters in typical business situations. However, the game-theoretic concepts themselves are quite general, as the goal of the course is provide students with both an understanding of these concepts, and a tool kit with which to evaluate a broad range of strategic problems. The set of strategic problems specifically discussed includes the pricing of new and existing goods in the presence of substitutes and complements, determining advertising and R&D expenditures, analyzing market entry, exit, and entry deterrence opportunities, and evaluating bargaining and auction environments. Extensive use is made of examples from both private- and public sector analyses of strategic interactions among firms.
Prerequisite: STR 401 or GBA 461

STR 423. PRICING POLICIES
(Same as MKT 414)
This course prepares future managers to analyze the environment in which their firm operates in order to arrive at an appropriate pricing policy for their products or services. Topics include (i) relevant costs (i.e., which costs are relevant for pricing decisions), (ii) elasticity of demand, and (iii) market segmentation (e.g., through the offering of a product line, or by means of bundling, tying, menus of two-part tariffs, quantity discounts, and other direct and indirect means of price discrimination). The course will also cover essential pricing analytic tools such as break-even analysis and economic value analysis, and it will provide a solid introduction into the pitfalls of pricing in a competitive environment and how to anticipate competitor responses. Lastly, the course will cover the legal aspects of pricing as appropriate.
Prerequisites: STR 401 or GBA 461 and MKT 402

STR 424. HUMAN RESOURCE STRATEGY
This course analyzes human resource management from an economics perspective. It focuses primarily on the implementation of compensation and incentive structures in organizations. Topics include: selection and hiring of employees, measurement and appraisal of employee performance, promotion-based incentive systems, managing work-force diversity, employee relations, and the coordination of human resource policies and business strategy.
Prerequisite: STR 401 or GBA 461
Recommended: STR 403

STR 427. ORGANIZATIONAL BEHAVIOR
This course presents behavioral concepts that influence individual, group, and organizational effectiveness. Particular emphasis is given to motivation, culture, globalization, leadership, group dynamics, communication, organizational structure and change. Students develop ways of thinking about organizational problems to increase individual and organizational effectiveness. Multiple stakeholder perspectives and systemic approach to organizational problems are emphasized.

STR 429. ADVANCED COMPETITIVE STRATEGY
This course builds on STR421 to train students in conducting and communicating strategic analysis. The course provides an end-to-end methodology for evaluating and developing business strategy. Students learn and practice framing an unstructured strategic challenge, constructing workable questions, collecting and evaluating the required evidence and formulating strategic recommendations. The course is split between work on a term-long project, lectures, and case studies.
Prerequisite: STR 421

STR 430. HEALTH SCIENCES MANAGEMENT AND STRATEGY
(Same as HSM 430)
This course applies the principles of organizational economics and strategy to the institutional setting of health sciences. The course focuses on the interdependence between the delivery, financing, and technology sectors of the health care marketplace. It discusses how management and strategy choices within each sector are responses to the unique institutional
factors in the health care marketplace and how the strategies of each sector affect the behavior of the others. Students will leave the course with an ability to think productively about management and strategy challenges within each of the three health science sectors.

Prerequisite: STR 401 or GBA 461
Recommended: STR 403, STR 421

STR 438. B2B PRICING
(Same as MKT 438)
Students will learn the major differences in pricing strategies between selling to consumers (STR 423) and to other firms, which then deal with consumers. The course starts by analyzing the pricing problem of a manufacturer selling to a retailer. We examine the issue of double marginalization, and learn how two-part tariffs get us out of this problem. We also examine different forms of contractual relations—from vertical acquisitions to regular short-term contracts—and potential issues with each form, touching on transfer pricing and outsourcing. In the second part of the course, we analyze a crucial concept of cost pass-through (how much a retailer should decrease the retail price in response to a decrease in the wholesale price) and the effect of manufacturer’s advertising on the retailer and on the channel overall. This course is a natural continuation of STR 423 Pricing Policies for those who are interested in working in an industry where a significant portion of sales is done through independently-owned retailers, whether students are planning on working on the retailer side or on the manufacturer side of this industry.

Prerequisite: STR 423

STR 439. ADVANCED PRICING
(Same as MKT 439)
This course builds on MKT 414/STR 423 to equip students with the skills to make profitable pricing decisions in complex business environments. Topics include: pricing with constrained supply and uncertain demand; markdown management; advance selling; pricing on the Internet; selling through auctions; pricing in markets with (direct and indirect) network effects; and psychological aspects of pricing.

Prerequisite: MKT 414 or STR 423

STR 440. CORPORATE GOVERNANCE
This course builds on STR 403 Organization and Strategy to provide a more in-depth analysis of organizational choice and governance mechanisms. Topics include: the choice of organizational form; corporate charter (voting rules, anti-takeover provisions, and so on); proxy process; board of directors; ownership structure; banks and other financial institutions as organizational monitors; CEO selection, retention and succession; and governance in entrepreneurial firms. The class presents the important issues relating to these topics and examines the relevant empirical research. Emphasis is placed on how optimal practices can vary across industry, strategy, and country and on how they might evolve through time. The course complements FIN 411 (Investments) and FIN 423 (Corporate Financial Policy and Control) in helping students understand how corporate policies affect security prices and value.

Prerequisites: STR 401 or GBA 461 and STR 403

STR 442D. LEADING ORGANIZATIONAL CHANGE
This course focuses on organizational culture change, personal branding, and leadership development. Two distinct facets of organizational change are covered: what leaders must do personally to lead positive change and what organizations must do to sustain profitable change. Students will work in teams where they will conduct a consulting project with an organization of the team’s choice. In addition, students will be guided on a personal journey to create clarity on the core values that make up their personal brand of leadership.

Prerequisite: permission of the instructor

STR 442E. STRATEGY BEYOND MARKETS
In this course, you will develop a framework for constructing non-market strategies and integrating them with market strategies. It will cover a broad range of topics, including the legislative process, regulation, activism, corporate social responsibility, and crisis management. It will also study the special challenges facing global firms and innovative firms. Class sessions will be highly interactive and will emphasize the real-world applicability of the frameworks and theories we discuss in class.

Prerequisite: permission of the instructor

STR 442F. STRATEGY, ORGANIZATION, AND FIRM VALUE
Finance professionals are playing increasingly important roles in strategic and business decision making, corporate restructurings, going private transactions, active investing, venture capital financing, mergers and acquisitions, business valuations and other activities that require a basic understanding of corporate strategy and organization. In addition to having basic finance and modeling skills, today’s finance professionals must understand how firms create value and the circumstances under which they can earn superior economic returns. This course, which is designed specifically for finance masters students, introduces students to important concepts and tools related to strategy, such as industry analysis, sources of competitive advantage and business models. The course also introduces students to economic concepts concerning internal organizational policies (e.g., corporate divisional structure, performance evaluation and compensation). Finance professionals must have knowledge of the concepts covered in this course for properly valuing businesses and investment opportunities and for engaging in many other professional activities, such as corporate restructurings and active investing.

Prerequisite: permission of the instructor

STR 461. STRATEGY AND BUSINESS SYSTEMS CONSULTING PRACTICUM
(Same as CIS 461 and OMG 461)
This course provides students with an introduction to strategy and business systems consulting. It is aimed at students who wish to explore career opportunities within the major consulting firms, but is also relevant for students considering a career as an independent consultant, or within a corporation’s internal consulting group. The course focuses on three areas:

• The Consulting Industry: Students will examine several types of consulting and understand where the major consulting firms position themselves. The career paths for students entering the industry, and the skills and values necessary for success as a consultant will be scrutinized.

• The Business Systems Consulting Process: The creation of proposals, winning of engagements, and preparation of contracts will be discussed. The typical stages of a business systems consulting engagement and managing different sorts of consulting projects will be examined.

• Consulting Skills: The role of the consultant and the human dimension will be discussed. Diagnostic tools and data gathering techniques will be presented. Frameworks for problem solving, and communicating recommendations will also be introduced.

The course examines a wide range of modern global business challenges and opportunities from both the consultant’s and the manager’s perspectives and provides a learning platform to integrate and practice the skills and knowledge learned.
CIS 401. INFORMATION SYSTEMS FOR MANAGEMENT
This course focuses on the theoretical foundations underlying management information systems and their vital role in the modern business environment. Topics include: information economics; innovative models of e-business and the impact of the Web on organizational transformation; the nature and operation of large-scale-enterprise information systems; database and knowledge management systems; data communications; electronic commerce; business process re-engineering; and information-systems analysis, design and control. The strategic and economic impacts of competitive information systems are emphasized. Assignments and cases introduce students to modern quantitative business modeling concepts and analysis, and to sophisticated business applications of the Web and databases.

CIS 416. ADVANCED INFORMATION TECHNOLOGY
Information has become increasingly important to the modern corporation for conducting operations, improving efficiency, and maintaining competitiveness in rapidly changing markets. Effective use of information technology (IT) involves knowledge of the existing capacities, awareness of how information technology is changing, and imaginative use of the technology to enhance business performance. The course contains a broad coverage of trends in IT development (e.g., hardware, software, systems architecture, networks, security, etc.), and how these components can be used for new business applications. The emphasis is not on the technology, but rather on managerially evaluating its usefulness for solving business problems. Topics to be covered include: client-server architecture, database warehousing, data mining, decision support, enterprise resource planning, knowledge-based systems / artificial intelligence, networks and security, object-oriented and Web-based programming languages, and technology for project managers. All students are required to complete a group project on the business implications of these technologies. They have to look at these technologies from the perspective of a business consultant who needs to understand how to match the right technology with his or her customers’ business problems.
Prerequisite: CIS 401

CIS 417. INTRODUCTION TO BUSINESS ANALYTICS
This course covers the emerging field of business analytics (BA) or “data mining” and expands and develops the students’ analytical tool kit in analyzing massive data sets. Using case studies and hands-on data sets, students will learn advanced data query techniques, data cleaning and organization, explore various machine learning techniques including supervised and unsupervised classification schemes, text classification, clustering techniques as well as predictive analytics. Students will gain hands-on experience with a variety of software tools, including SQL, SAS, R, Tableau, and Weka – an open source platform for data mining.
Prerequisite: GBA 412 or GBA 462

CIS 418. ADVANCED BUSINESS MODELING AND ANALYSIS USING SPREADSHEETS
The course expands and develops students’ analytical tool kit through “hands on” training in the effective use of spreadsheet-based tools for advanced managerial analysis. Students perform quantitative analysis of advanced problems in options pricing, investments, corporate finance, marketing, and operations. The course enhances and reinforces the analytical skills developed in earlier MBA classes such as formulating and solving large-scale business problems using quantitative models, risk simulation and sensitivity analysis. Spreadsheet tools introduced in this class include Visual Basic for Applications (V.B.A.) and stochastic optimization using Optquest. Students who successfully complete the course should possess cutting-edge skills in spreadsheet business modeling and analysis.

CIS 432 PREDICTIVE ANALYTICS USING PYTHON
This course introduces students to advanced business analytics techniques and the practical aspects of applying these techniques in Python, one of the leading programming languages and platforms for data science. Topics include classification algorithms (such as support vector machines), clustering algorithms (e.g., K-means), and ensemble methods. In addition to machine learning algorithms, we will explore the software tools that constitute the Python data science ecosystem.

CIS 434. SOCIAL MEDIA ANALYTICS
The rise of social media has empowered customers in an unprecedented way. They are well connected with each other through platforms like Facebook and Twitter, and they can easily express and distribute their comments, criticisms, or endorsements publicly to large audiences in real time. This fundamental media revolution not only forces companies to actively manage their presence and engage with customers on social media platforms but also offers them a golden opportunity to extract intelligence from the vast amount of unstructured data. Technology and strategies are increasingly intertwined in this new frontier of innovation and competition.

This course draws on a unique blend of social media strategies and the rapidly evolving information technologies supporting these strategies. We will discuss issues related to the monitoring and analyzing of social media for companies in different industries. The learning objectives of this course include: (1) gaining a deeper understanding of social media and its
implications in the business world; (2) becoming comfortable with text data; and (3) being able to understand and apply several commonly used methods to analyze text data.

CIS 437. DIGITAL MARKETING STRATEGY
(1) same as MKT 437)
This course examines the major issues involved in marketing on the Internet. Among the topics studied are: new product opportunities on the Internet; the changed role of advertising; the Internet as a two-way communication medium with consumers; targeting individual consumers; word-of-mouth among consumers on the Internet; the Internet as a distribution channel; and marketing research on the Internet.
Prerequisite: CIS 432

CIS 440. DIGITAL BUSINESS STRATEGY
This course covers electronic strategies for business-to-business and consumer e-commerce. This includes strategies for protecting market share by going online, ameliorating online competition using network effects and customer lock-in, positioning against other online presences, dealing disintermediation and re-intermediation, developing online communities for business or consumer e-commerce, and managing supply chain and customer relationships.
Prerequisite: CIS 401

CIS 442E. DATA MANAGEMENT ANALYTICS
This course is designed to provide students with concepts and skills in managing data using traditional and cloud based systems. The course covers theory of database systems, data manipulation techniques, data integration and cleaning, and working with modern and advanced data architectures. The class covers both theory and hands on activities using Microsoft Access, SQL, Tableau and R. Microsoft Access, SQL, Tableau and R may be used extensively in class, for assignments and exams.

CIS 442F. BIG DATA
This class offers an introduction to big data concepts, environments, processes, and tools from the perspective of data analysts and data scientists. The course will set the scene for the emergence of big data as an important trend in the business world and explain the technical architectures that make analyzing data at scale possible. The hands-on portion of the class will focus on the major tools of the Hadoop big data ecosystem such as HDFS, Pig, Hive, Sqoop, Hue, Zeppelin, and Spark. In addition, students will gain a broad understanding of the role of MapReduce, Tez, Impala, YARN, and other big data technologies. Students will use a live Hadoop cluster hosted on Amazon Web Services (AWS) and thus also have an opportunity to understand the characteristics of cloud computing and storage solutions and their growing role in big data analytics.
Prerequisite: CIS 432

CIS 446. FINANCIAL TECHNOLOGY (FINTECH)
(Same as FIN 446)
This course provides an introduction to the evolving use of technology in financial markets and applications. One area of focus is “blockchain” technology in financial transactions, markets, permanent historical records, and cryptocurrencies. The other major area of focus is innovations such as peer-to-peer transactions and the use of artificial intelligence in evaluating and funding investments. Throughout we will consider the prospects for the success of the new technologies, asking questions such as: How revolutionary are the various parts of FinTech? What are the hidden pitfalls of the technology/business models to individuals, companies and/or society? How will major financial institutions and governments react? What changes are required in legal rules (including internationally) to accommodate FinTech? The course will require working with large data sets (the blockchain) and specific cryptocurrency implementations. While computer programming skills are not required as a pre-requisite, success in the course will require that students learn the basics of the computer science concepts of public-key cryptography, data verification, and simple programming structures (loops, branching).

CIS 446A/B. PRACTICUM IN BUSINESS ANALYTICS I & II
This course provides MS and MBA students with the opportunity to use the skills they have developed through other coursework in statistics and analytics to the development and execution of a capstone project. The projects, using real-world situations and data, will serve as preparation for careers in industries such as marketing, consulting, and finance that require extensive knowledge and application of data science.

PHD COURSES
CIS 511. RESEARCH TOPICS AND METHODS IN INFORMATION SYSTEMS
There are three objectives of this course. The first objective is to review several important research streams that received extensive attentions in the IS community over the past few years, and also explore potential topics that may emerge as important ones in the near future. The second objective is to review important methodology issues that IS researchers routinely take care of, and also introduce some less commonly used but prominent methods that may be valuable in future IS research. The third objective is to train PhD students to think critically and rigorously, and to gradually develop a good sense of how significant and interesting a given research project is and reviewers might react to it.
ENTREPRENEURSHIP
Duncan T. Moore, Area Coordinator

MASTERS LEVEL COURSES

ENT 422. GENERATING AND SCREENING ENTREPRENEURIAL IDEAS
As the foundation course in Entrepreneurship, this course covers: idea generation, opportunities screening, entrepreneurial characteristics. This course outlines a critical evaluation process used by successful entrepreneurs to prioritize new venture ideas. The focus of this course is on the technical and market evaluation of very early-stage ideas when information is greatly lacking, and the time and money to research such answers is also limited. Students, in group format, generate and filter their own ideas and evaluate them based upon technical merit, business challenges, and early market indicators. Teams present their idea-filtering rationale to a panel for review and feedback.

Behind this evaluation process, the class review reference material on the subject and several accomplished entrepreneurs will share their personal experiences. While the nomenclature align most directly to high-technology for-profit start-up companies, parallels to low-tech-no-tech, intra-preneurship, non-profits, and social entrepreneurship will be discussed.

ENT 423. NEW VENTURE DEVELOPMENT AND MANAGING FOR LONG TERM SUCCESS
The focus of ENT 423 is learning how to prepare an effective business plan that will communicate the inherent value of the concept. Among the critical issues that will be addressed are: competitive conditions and industry trends, sustainable competitive advantages, management team, marketing plan, financial plan, exit possibilities, franchising, legal entities. The approach used is appropriate for start-ups and for corporate venturing. It is also suitable for both profit and for not-for-profit organizations. Also included is a social entrepreneurship module. At the same time plans are prepared, other entrepreneurial issues are studied, such as assembly resources, launching and building new ventures and harvesting results. Lectures, cases and guest speakers are utilized. The speakers will address a range of new venture topics from the development of management teams, marketing, finance, venture capitalists and legal issues. The completion of a business plan for a proposed new venture is required.

ENT 424. PROJECTS IN ENTREPRENEURSHIP
This course combines a supervised internship with a start-up firm with lectures and in-class discussion on the management of new ventures. The internship places students with Rochester-area firms where they work closely with senior managers for approximately 120 hours over an academic term. In their internship, students will focus on the commercial viability of the firm’s offerings. This will be accomplished through shadowing management, reviewing reports, participation in meetings and work assignments. Complementing this hands-on entrepreneurial experience are weekly classes held to discuss student experiences. In addition, there will be lectures on pertinent entrepreneurial subjects as well as guest speakers.

Prerequisites: Completion of core courses, and either ENT 422, 423 or 425. Permission of the instructor must be secured prior to registration.

ENT 425. TECHNICAL ENTREPRENEURSHIP
This course provides an opportunity to examine the management practices associated with technical innovation and new business development. The analysis of entrepreneurship is evaluated primarily from the perspective of a start-up venture that requires equity capital investment. Management issues discussed include organizational development, analysis of market opportunities, market engagement, financial planning and control, capitalization, sources of funds, the due-diligence process, and valuing the venture. An important reason for taking this course is to learn how to develop a business plan. Therefore, a significant component of a student’s final grade will be based on this. In too many instances, a new venture does not become a viable entity because either there is no plan, or if there is, it is poorly conceived. Furthermore, a good plan is an effective communications tool for the investment community. An additional benefit is learning to work in multidisciplinary teams.

Teams of three to four students collaborate in the preparation of a business plan. The course includes time for students to share business ideas and identify possible team members. In general, each team includes two students and two science/technology graduate students. Other team configurations are possible with instructor approval. Each team’s business plan will receive a grade and that grade will apply to each individual on the team. Each team has a coach who is an experienced businessperson. The coach is available to provide feedback to the team. This course is cross listed at OPT 481 and is taught by a faculty member at Simon and who is from Engineering.

ENT 426. TECHNOLOGY TRANSFER AND COMMERCIALIZATION
The creation of value in today’s globally competitive environment is increasingly driven by technology. Corporations are reaching out for new technologies, and start-up companies with the highest potential are being formed around novel disruptive technologies. Radical innovation creates a “gale of creative destruction” which transform industries. The identification and evaluation of technologies with high potential is today a key to success. With the decline of corporate research functions, novel technologies are increasingly sourced from other firms and universities. This course examines the overall technology commercialization process, with an emphasis on the processes by which intellectual property is protected, valued and transferred from one organization to another. The course addresses the strategic decisions involving novel technology: the identification of target markets, the economic valuation along the phases of the commercialization process and the assessment of alternative commercialization strategies including licensing, startup company formation and venture capital funding. The course is taught by a combination of lectures and real-world case studies of current technologies, primarily from the University of Rochester in science, engineering and medicine.

ENT 427. PRACTICUM IN TECHNOLOGY TRANSFER AND COMMERCIALIZATION
Students in this course will work in the Office of Technology Transfer on projects which are a best fit to the student’s background and the range of inventions from the University of Rochester in science, engineering and medicine. Projects can include either marketing to existing companies or work on catalyzing a startup company. Either type of project will require assessments of novel concepts based on discussion with the inventors and direct market research and interactions with potential customers. The skills required are primarily those of marketing and business assessment, but some facility with technical content will be helpful. The students will prepare a technology commercialization and/or new venture plan and assist the licensing executives in the University’s Office of Technology Transfer in the negotiation process to implement the plan.
ENT 431. LEGAL AND TAX CONSIDERATIONS OF NEW VENTURES
(Same as BPP 431)
This course surveys, from the entrepreneur’s perspective, legal and tax considerations that impact strategic choices in organizing, funding, staffing, governing, and operating new ventures. The course’s principal focus is on how to create and retain competitive advantage through the skillful ordering of legal affairs. Emphasis will be transactional and include analysis of such issues as the creation and protection of intellectual property, technology licensing, global expansion, and internet commerce. The course will include, as a context for applied learning, a term project involving the creation and evolution of a selected new venture opportunity.

ENT 432. BASIC BUSINESS LAW
(Same as BPP 432)
This course surveys the law of contracts, agency, and business associations – with the objective of developing familiarity with selected laws, regulations, legal principles, and legal processes that govern (a) efficient exchange, generally; and (b) how and in what ways managers and entrepreneurs organize and interact to facilitate exchange. Although emphasis will be on United States law, there will be selected reference throughout the course to issues related to international transactions and to pertinent differences in legal systems of countries outside the United States. The course has a distinct transactional focus, with heavy reliance upon contemporary cases, commercial practices, and issues. Particular attention will be given to the impact of the legal framework upon sound managerial decision-making, business risk management, commercial rights and responsibilities, and ultimately business valuation.

ENT 435. NEGOTIATION THEORY AND PRACTICE: BARGAINING FOR VALUE
(Same as GBA435)
This course surveys the theoretical and behavioral underpinnings of negotiation practices and develops skills that enhance the ability to capture value in cooperative and competitive bargaining scenarios. Students participate in and evaluate several cooperative and competitive negotiation simulations. Grades depend, in large part, on performance in these exercises.

ENT 441. MEDICAL ENTREPRENEURSHIP
This course aims at educating medical technology innovators how to increase their likelihood of success in identifying important clinical needs; inventing new medical practices, devices, and instruments; and transforming these advances into businesses that improve health. It covers several topics, including clinical cost effectiveness methodologies, needs finding and formulation, market analysis for biotech, patient searching strategies, and models of disease state and existing technologies. The course is unique in that it attracts both medical students and business students who are working on supervised projects together.

ENT 442A. SPECIAL TOPICS IN ENTREPRENEURSHIP: FUNDAMENTALS OF SOCIAL ENTREPRENEURSHIP
This course provides both an academic exploration of social impact and entrepreneurship, as well as real-world clinical projects with clients and deliverables. Readings will explore the background, overview, evolution, challenges, structures, and potentials of applying social entrepreneurial tools and attitudes to address critical societal issues, such as poverty, education, public health, and environmental threats. The role of both for-profit and not-for-profit entities will be examined. Clinical projects will address business strategies, financing, and that have clearly defined, implementable solutions for real-world problems.

ENT 442B. SPECIAL TOPICS IN ENTREPRENEURSHIP: PRACTICUM IN URBAN ENTREPRENEURSHIP
With the loss of vital economic drivers, Rochester is a prime example of an urban environment experiencing infrastructure distress and stagnation with a marked decrease of quality of life for its inhabitants. Like any urban environment, promoting a virtuous cycle of economic growth is vital for the recovery of Rochester. Social entrepreneurs play a critical role by engaging business tactics and an understanding of market-efficient forces that deliver savvy and creative solutions to address core urban issues, such as reducing poverty (through job creation and other means), increasing access to capital (community banking and microfinance), promoting business growth (incubators, accelerators, and the role of the university), residential and retail development, effectively delivering public health services, education for its populace and future work force (i.e. Khan Academy and charter schools) and ensuring a safe and healthy environment. By encouraging new entity formation and reengineering existing organizations, these challenges create opportunities for the social entrepreneur. Understanding the fundamental pieces of the urban puzzle is essential for an urban social entrepreneur to come up with effective and relevant solutions.

ENT 442X. INTERNATIONAL BUSINESS PRACTICUM & ISRAEL IMMERSION
This course is designed to provide students with a hands-on experiential learning opportunity for global entrepreneurship through a combination of lectures, a real-life business development project and learning about the Israeli entrepreneurial ecosystem. Students will be partnered with an Israeli startup that is looking to expand their markets served by penetrating the US market. The project will include following a consultative model, analyzing the markets and opportunities and presenting their recommendations to the client. Israel has built a stellar reputation for being one of the most innovative countries in the world and has the highest per capita number of startup companies in the world. Their citizens have a perseverant, take-charge approach to business, which has led a vast number of international conglomerates to base their R&D and New Product Development Centers in Israel. This class will introduce students to the Israeli culture and business climate along with multi-national corporations that have moved mission-critical centers and startup venture activities to Israel. The International Business Practicum will introduce students to Israel's history, which will help them understand how Israel came to be what it is today.

ENT 444. ENTREPRENEURIAL FINANCE
(Same as FIN 444)
This course provides an introduction to financial theories and tools an entrepreneur needs to start, build, and harvest a successful venture. Lectures and case studies cover financial planning, business valuation (including the venture capital and the real option approach), financing, venture capital funds, compensation structures, and exit strategies.
Prerequisites: FIN 402
FINANCE
Jerold B. Warner, Area Coordinator

MASTERS LEVEL COURSES

FIN 402. CAPITAL BUDGETING AND CORPORATE OBJECTIVES
This course provides an introduction to financial analysis and capital budgeting with an emphasis on the valuation of real investment projects. Topics discussed include: analysis of the firm’s choice among alternative investment projects, the term structure of interest rates, modern portfolio theory and the valuation of risky assets, the estimation of free cash flows, capital structure choices, and the cost of capital.

FIN 411. INVESTMENTS
Investments includes discussion of the efficient-markets theory of the dynamic behavior of prices in speculative markets, along with empirical evidence for the validity of the theory; evaluation of the implications of the efficient-markets theory for the profitability of alternative investment strategies; exploration of the implications of portfolio theory for equilibrium asset prices and the measurement of risk; emphasis on the empirical evidence for various mean-variance and multifactor models of asset pricing and the use of these models for evaluating portfolio performance; and introduction to special topics in financial markets, such as arbitrage pricing theory, and options and futures contracts.
Prerequisites: GBA 412 or GBA 462 and FIN 402

FIN 413. CORPORATE FINANCE
This course provides an intensive analysis of the effects of various corporate financial policy decisions on the value of the firm, including a discussion of the effects of taxes, bankruptcy costs and agency costs on these decisions. It then examines the interrelation of financing policy with executive compensation, leasing, hedging and payout policies. The course provides an understanding of the theoretical issues involved in the choice of these policies.
Prerequisite: FIN 402

FIN 418. QUANTITATIVE FINANCE WITH PYTHON
The objective of this course is to equip you with the frameworks, tools, and methodologies necessary to build and/or be an educated user of quantitative models for financial decision making. The course is suitable for students seeking a career in finance, but also for students with broader interests who wish to strengthen their general modelling skills, and it does not require any quantitative background other than what is covered in the MBA core courses. Master modelling frameworks such as regression analysis, Monte-Carlo simulation, optimization, and binomial trees. Learn how to apply these frameworks in financial contexts such as portfolio management, term-structure estimation, capital budgeting, risk measurement, risk analysis in discounted cash flow models, and pricing of European, American, exotic, and real options. The modelling tools will be illustrated by applying them to a variety of real-world cases.
Prerequisites: FIN 402 and FIN 413

FIN 424. OPTIONS AND FUTURE MARKETS
This course provides intensive study of the fundamental ideas of option-pricing theory and their application to options, financial futures and other securities; analysis of hedging with forward and futures contracts; development of the Black-Scholes option-pricing formula, its uses and modifications, and generalizations of the model; and discussion of the structure and organization of options and futures markets, and the exploration of empirical evidence on the validity of option-pricing models. Analyses of the pricing of options on futures, foreign currency, portfolios and indexes, commodity prices, bond prices, and interest rates are included as time permits.
Prerequisites: FIN 402 and FIN 411

FIN 430. RISK MANAGEMENT
This course focuses on analysis of the mutual fund, investment banking, commercial banking, and insurance industries. Particular emphasis is placed on the effects of contracts and organizational structure on the incentives of the participants in these industries.
Prerequisites: FIN 402; FIN 411 and FIN 413 (may be taken concurrently)

FIN 433. CASES IN FINANCE
This course provides intensive exercise in valuation methods and the economic analysis of problems of corporate financial policy. A variety of other topics, including insider trading, portfolio performance and asset allocation, are also explored. Specific case topics include: corporate valuations; M&A transactions (tender offers, mergers, proxy fights); recapitalizations; stock repurchases; and novel securities. Case reports are done in teams and judged on clarity and usefulness to practitioners in understanding and resolving strategic problems.
Prerequisites: FIN 402 and FIN 413

FIN 434. INVESTMENT MANAGEMENT AND TRADING STRATEGIES
This course explores selected topics in the management of equity portfolios. Course content may vary from year to year. Topics include: active portfolio management with particular emphasis on risk analysis, multifactor risk / return models and performance evaluation and style analysis. The course also considers issues and evidence on different forms of market structure and trading systems, including the role of specialists/dealers, optimal trading behavior for institutions, price impact of trades, and related information technology. Extensive use is made of investment software.
Prerequisite: FIN 411

FIN 441A. SPECIAL TOPICS IN FINANCE: REAL ESTATE
This course provides an introduction to, and an overview of, real estate as a capital asset and as a major component of our financial markets. The course will focus on the basic economics of real estate markets, market analysis, and real estate finance. Concepts used in the real estate industry will be covered throughout the course. The course will specifically consider market analysis, valuation, capital structure, and risk analyses for income-producing (commercial) properties. The securitization of both commercial and residential properties has been a critical factor in our current economy, and the structure of real estate securities and investment vehicles such as real estate investment trusts will be studied. The course also introduces real estate development and current trends in the market.

FIN 441B. SPECIAL TOPICS IN FINANCE: PRIVATE EQUITY
The Private Equity and Venture Capital (PE/VC) industry is much more in the popular press than ever before; funds are larger and more diverse than in any past generation, deals are bigger, scope is worldwide, and wealth-generation seems to be at levels heretofore unseen. Many argue that PE/VC drives major segments of national economies more than ever before, and that it is essential that the industry is better understood and weighed more heavily in the thinking and plans of policy-makers in government and commerce. This course provides exposure to what PE/VC is and how it works. We cover, among other things; the make-up of funds, the composition and operation of PE/VC firms, dealing sourcing, due diligence and investment process, and the roles of partners, GPs, LPs, ‘activists’ and Boards. At a higher level, we cover industry performance and competition,
FIN 441F. SPECIAL TOPICS IN FINANCE: CORPORATE RESTRUCTURING
This course will enable the students to acquire a good understanding of the fundamental causes of restructuring events; the legal framework in which restructuring occurs; the likely consequences and risks involved in pursuing various restructuring strategies. After taking the course, students will be capable of deriving the value of securities issued by firms undergoing a restructuring event (with a particular focus on distressed firms). They will learn about famous restructuring cases and controversies, and will be exposed to the views of guest speakers who pursued a career in M&A and restructuring.

FIN 441G. SPECIAL TOPICS IN FINANCE: ASSET MANAGEMENT
The course will provide students with a fundamental understanding of the principles and analytics of asset management as applied to both institutional and private clients. It should be of great interest to anyone aspiring to a career in asset, portfolio, private wealth, endowment, foundation, sovereign wealth, or pension fund management. A fundamental understanding of the issues in asset management, whether institutional or private, will also be helpful in other areas of finance such as investment banking, insurance, accounting and personal finance, as well as operations and marketing in these types of firms. In addition, students will learn how to better manage their future personal wealth.

This class will focus on the more practical aspects of asset management to prepare students for the actual demands of a job in the industry. The course will also describe the challenges in managing such portfolios from the perspective of an institutional or individual investor and a fund manager (public equity, fixed income, hedge, or liquid).

Prerequisites: FIN 402 and FIN 411

FIN 442. INTERNATIONAL ECONOMICS AND FINANCE
(Same as BPP 442)
Topics include: exchange-rate regimes; the determination of exchange rates in a world of flexible exchange rates; speculation in foreign exchange markets; the Eurocurrency and measurement of foreign exchange exposure; analysis of currency forward, future, option, bond, and swap contracts; hedging of foreign exchange exposure.

Prerequisite: FIN 402
Recommended: FIN 411

FIN 442X. INTERNATIONAL FINANCE & SWITZERLAND IMMERSION
This course is designed to give students an immersive experience into Swiss culture, business and international finance. The three elements of this course experience are classwork, cultural experiences and company visits. The classwork is taught both in the US and in Switzerland and focuses on elements of international finance and the macro and micro-effects on the Swiss and other international economies. Class sessions are held in Thun and business trips are scheduled to Swiss companies in Bern and Zurich where students hear directly from the company about economic influences discussed in class. Cultural experiences are designed to help understand how the public lives in Switzerland, including historic sites in Lucerne and towns in the Swiss Alps.

FIN 444. ENTREPRENEURIAL FINANCE
(Same as ENT 444)
This course provides an introduction to financial theories and tools an entrepreneur needs to start, build and harvest a successful venture. Cases and lectures will cover business evaluation and valuation, including the venture capital and the real option approach, financing, venture capital funds, compensation structures, and exit strategies.

Prerequisites: FIN 402

FIN 446. FINANCIAL TECHNOLOGY (FINTECH)
(Same as CIS 446)
This course provides an introduction to the evolving use of technology in financial markets and applications. One area of focus is “blockchain” technology in financial transactions, markets, permanent historical records and cryptocurrencies. The other major area of focus is innovations such as peer-to-peer transactions and the use of artificial intelligence in evaluating and funding investments. Throughout we will consider the prospects for the success of the new technologies, asking questions such as: How revolutionary are the various parts of FinTech? What are the hidden pitfalls of the technology/business models to individuals, companies and/or society? How will major financial institutions and governments react? What changes are required in legal rules (including internationally) to accommodate FinTech? The course will require working with large data sets (the blockchain) and specific cryptocurrency implementations. While computer programming skills are not required as a pre-requisite, success in the course will require that students learn the basics of the computer science concepts of public-key cryptography, data verification, and simple programming structures (loops, branching).

Prerequisites: FIN 402 or equivalent

FIN 448. FIXED-INCOME SECURITIES
The objective of this course is to undertake a rigorous study of fixed-income securities and markets. A variety of fixed-income securities will be discussed including coupon bonds, callable and puttable bonds, sinking fund provisions, and floating rate notes. Interest rate derivatives such as forwards and futures on fixed-income securities, bond options, options on bond futures, caps, floors, and collars will also be discussed. In addition, we will study some tools that are useful in bond portfolio management including horizon analysis, duration, optimization techniques for constructing bond portfolios and modes and pricing of fixed-income securities. While the perspective of this course is from the viewpoint of a bond investor, a person in corporate finance needs to understand similar material. Evaluating an investment in a fixed-income security is the mirror image of the problem faced by a corporation in deciding whether or not to issue a bond.

Prerequisites: FIN 402 and FIN 411

FIN 462. FOUNDATIONS IN FINANCIAL ECONOMICS
This course serves as an introduction to the theory and practice of corporate finance. It provides a market-oriented framework for analyzing the investment and financing decisions made by corporations. The two major questions, which this course aims to answer, are: 1) How do corporate managers decide which projects to undertake? and 2) How do they decide how to finance these projects? Topics discussed include valuation of financial assets, capital budgeting techniques, theories of capital structure, and capital market efficiency.

FIN 465 A/B. APPLIED FINANCE PROJECT I & II
The experience of working on actual projects provides the opportunity for the student to incorporate subjects, skills and tools, introduced through the classroom, into the problem identification, assessment, and solution process used with and for clients. The project work also provides visibility and use of measurement schemes, statistical analysis, and engages the student in activity that supports
PHD COURSES

FIN 505. THEORY OF FINANCE
The goal of this course is to present the theory of asset pricing and portfolio selection in multi-period settings under uncertainty. The asset pricing results are based on three increasingly restrictive assumptions: single-agent optimality, absence of arbitrage and equilibrium. These results are unified with two key concepts: pricing kernels and martingales. The course draws connections between these concepts and makes plain the similarities between discrete and continuous time models. Applications include term structure models, portfolio choices, and the pricing of corporate securities. This course will follow the semester schedule.

FIN 511. CONTINUOUS TIME THEORY IN FINANCE
The course builds on the basic theory presented in FIN 505 Theory of Finance. FIN 511 will emphasize some relatively advanced mathematical methods that are used in the research literature of financial economics. The objective of the course is to provide the student with enough knowledge of these methods that he or she can begin to use them in nontrivial ways in his or her research. Particular emphasis is given to topics that are costly or difficult to learn on an individual basis.

FIN 512. EMPIRICAL ASSET PRICING
This course covers classic contributions and recent developments in capital markets research, both applied theoretical and empirical, in relation to corporate policies, business cycle and economic growth. Specific topics include time-series predictability of stock market returns, empirical methods and evidence on the cross-section of returns, evidence on mutual fund performance and the closed-end fund puzzle, event studies and the empirical relations between stock returns and corporate policies, consumption-based asset pricing, applied equilibrium modeling of asset pricing anomalies and behavioral finance.

FIN 513. AGENCY THEORY
The course studies game-theoretic foundations of the theory of the firm. The strong emphasis is placed on corporate finance. The topics include capital structure, asymmetric information and signaling, contract design, and optimal security design. We also look into information aggregation in financial markets, bargaining with asymmetric information, and dynamic signaling – important and fascinating topics in the broader area of information economics and their applications to finance.

FIN 514. EMPIRICAL CORPORATE
This course covers cross-sectional and panel data empirical methods used in corporate finance research. The course will expose students to a variety of methods commonly employed in empirical research. While the course will cover the efficiency and consistency of various estimators, the primary focus will be on how econometric tools can be used to identify unbiased causal effects. Lectures and econometric readings will provide students with econometric intuition behind each method covered in the course. Course readings will expose students to examples of the methods being used in published and working papers. Assignments will familiarize students with standard datasets used in corporate finance and will enable students to apply the methods covered in the course and to analyze and criticize other researchers’ use of common empirical methods.

FIN 523. ADVANCED AGENCY THEORY
The course studies dynamic aspects of the theory of the firm. The strong emphasis is placed on the role of time and repeated decisions in firm management. The topics include real options, dynamic lemons markets, dynamic contracts, and investment under constraints. The course is research intensive, requiring completion of several referee reports and a term project.
GESTIVE BUSINESS ADMINISTRATION

MASTERS LEVEL COURSES

GBA 401. STRUCTURED PROBLEM SOLVING IN TEAMS
The First-Year Project Experience is a live project helping a client at a real organization answer an important question or achieve a significant business objective. Teams of students work together to deliver a set of well-reasoned impactful recommendations based built upon a thoughtful analysis of the relevant facts. This course is designed to provide an experiential learning opportunity through which students can develop key skill in teamwork, communication, and problem solving skills. These learning goals are supported by discussions in MGC - on the teamwork and communication aspects of the project experience; workshops on a hypothesis driven problem solving methodology used by management consultants; coaching from second year students during the experience; engaging in and refining interpersonal communication during client interactions; rehearsing and delivering the presentation of final recommendations; and reflection upon the overall experience.

GBA 411. BUSINESS MODELING
This course has two major objectives: to develop the ability to frame business decision problems in a way that makes them amenable to quantitative analysis and to train in fundamental quantitative analysis techniques useful for business problems. The course is structured in three parts: 1. using spreadsheets to model business decision problems. 2. solving complex decision problems involving many variables and constraints. 3. Monte Carlo simulation is introduced as a framework for understanding and analyzing uncertainty in business. Examples from different functional areas will demonstrate how the techniques taught can be applied in a practical way to a variety of settings.

GBA 412. DATA ANALYTICS
This course provides an introduction to utilizing data and data analytics to inform decision-making. Extracting information from data has become an integral part of modern business management, from sports teams, to Wall Street, to Silicon Valley. GBA 412 will de-mystify statistical, enabling students to thrive in a competitive market for data-based decision-making. After building core statistical and decision theoretic tools, this course will introduce you to different types of data and provide you with a set of analytical methods that apply to each. We introduce basic notions of probability and randomness, transition to data visualization techniques, and conclude with the basis of modern data science: prediction and multiple regression. Connections to other Simon classes will be emphasized, as will a hands-on approach to data analysis (laptop computers are required for every class). In the process, students learn to ask the right questions, seek out the relevant data, apply appropriate methods, and effectively communicate your insights to your target audience.

GBA 419A/B. LEADING TEAMS I AND II
This sequence of courses spans fall and winter terms and prepares Simon MBA Coaches and Workshop leaders to lead first-year project teams and problem solving groups in areas of setting expectations; establishing process; employing collaborative problem-solving frameworks; managing conflict; and giving and receiving performance feedback. The course rests on theoretical frameworks from the fields of education, psychology, and communication; its focus is the practical application of these concepts to facilitate the successful functioning of team-based problem solving and project management groups. The course provides weekly opportunity to review Workshop and Coach meeting related issues. Workshop leaders increase their mastery of business modeling and operations management concepts, and coaches improve their skills in developing presentations, managing projects and giving feedback for improved performance.

GBA 435. NEGOTIATION THEORY & PRACTICE: BARGAINING FOR VALUE
(Same as ENT435)
The course is subtitled “Bargaining for Value” because the notion of “bargaining” implies interaction and communication among self-interested players of diverse backgrounds and styles. “Bargaining for value” implies that the quantum of value extracted in a deal may vary within a range of potential values. “Negotiation” is a commonly-accepted term that captures the essence of these processes in a competitive or cooperative environment. This course surveys the theoretical and behavioral underpinnings of negotiation practices and develops skills that enhance the ability to capture value in cooperative and competitive bargaining scenarios.

GBA 441. BUSINESS ETHICS & CORPORATE SOCIAL RESPONSIBILITY
This course deals with business ethics and the social responsibility of business organizations. It is designed to inform decision-making about ethical challenges arising in business. It helps students identify and manage difficult ethical dilemmas they are likely to encounter in their future careers. The course is organized into four parts. It begins by looking at the place of business ethics in a competitive economy and discussing fundamental questions about the ethical responsibility of business corporations. Next, it addresses ethical issues faced by individuals in business organizations, including the complex nature of managerial responsibilities, whistle-blowing, and insider trading. It also explores the responsibilities of business corporations vis-à-vis clients, customers, and employees, discussing issues such as professional conflicts of interest in financial services, information disclosure in advertising, fairness in sales practices and in hiring and treating employees. Finally, it analyzes some ethical questions specific to business decisions in the health sector.

GBA 442C. ELEMENTS OF LEADERSHIP
This course approaches leadership as a set of learned skills that are subject to personal intention and choice. The focus is on cultivating core leadership mindsets and capacities: sense-making amid multiple perspectives, setting a vision, relating to others, and inventing solutions. These capacities are especially useful in team-oriented work settings and even in situations where one must influence without authority. The course draws on contemporary theories of adult development and leadership, such as leader-member exchange and the philosophy of servant leadership. The intention is to prepare Simon graduates for the challenges they will face a few years out of school as they transition to roles where leadership and greater complexity come to the fore. Assignments will blend conceptual models and practice, leading to a personal philosophy of leadership and an agenda for continued development.

GBA 442X. DOING BUSINESS IN SOUTH AFRICA
Offered every other year, the South Africa International Immersion allows the students to experience corporate and cultural interactions that will change their perspectives on how business is done internationally and allow them to learn how business is done in South Africa. Through a combination of lectures, a real-life business analysis of a community revitalization and company meetings, the students will grow their understanding and appreciation for the cultural and community effect on business in South Africa. Students will examine a revitalized community and compare and contrast this live case study with the Rochester revitalization, presenting their
findings to City of Rochester officials. Students will also experience the contrast of a safari and being housed near a watering hole, with the corporate world of Cape Town. Students will travel to Johannesburg, George and Cape Town. In addition to the cultural aspects of the tour, company visits, industry tours and alumni meetings will allow students to apply their learning to engage better with doing business in South Africa.

GBA 461. CORE ECONOMICS FOR MS STUDENTS

This course covers the fundamentals of economic theory, and discusses marketing-relevant applications. Specific concepts include understanding demand and demand elasticity, marginal revenue, key cost concepts (fixed costs, variable costs, marginal costs, sunk costs), profit maximization, understanding the competitive environment and strategic decision making, and net present value calculations.

GBA 462. CORE STATISTICS FOR MS STUDENTS

This course equips MS students with statistical skills necessary for data-driven decision making. The course covers central tendency and variability, probability, binomial and normal distributions, standard scores, hypothesis testing, z and t tests, ANOVA, correlation and regression, and non-parametric tests.

GBA 462R. CORE STATISTICS FOR MS STUDENTS USING R

This course equips MS students with statistical skills and the language R necessary for data-driven decision making. The course covers central tendency and variability, probability, binomial and normal distributions, standard scores, hypothesis testing, z and t tests, ANOVA, correlation and regression, and non-parametric tests.

GBA 463. ECONOMICS AND MARKETING STRATEGY FOR MS STUDENTS

This course introduces students to the basics of economics and marketing strategy through interactive lectures and case discussions. Consumer choice, demand curves, the impact of competition and costs form the nucleus of the economics topics. Marketing strategy builds on these consumer, competition and company considerations to understand the segmentation, targeting, positioning and promotional decisions of the firm.

GBA 464. PROGRAMMING FOR ANALYTICS

This course provides a foundation in programming within the R environment. Traditional programming concepts—operators, data structures, control structures, repetition, user-defined functions, and scoping—will be central to the learning objectives, but the concepts will be taught in context of marketing and business analytics problems related to data management and visualization. In addition to high-level programming, the students will gain a foundational understanding of how data is organized and pulled from databases, including the querying process that turns raw data into the kinds of datasets that more advanced analytics tools leverage. In the process, students will learn rudimentary SQL and the related core concepts (e.g., aggregation and joins). The course involves hands-on tutorial assignments involving practical pattern matching as well as less structured programmed assignments, where the students are expected to write their own programs.

GBA 466. ACCOUNTING AND FINANCE FOR MS STUDENTS

This course presents the basics of financial accounting, and will provide a framework for analyzing financial data, and understanding concepts developed throughout subsequent courses in the Business Analytics program. The course begins with an overview of the four financial statements, and then advances to more in depth coverage of Revenue and Expenses, Assets, Liabilities, Stockholder’s Equity, and Cash Flow. The course will then survey topics in corporate finance, centered on the analysis of financial data. The course includes a survey of financial metrics used to analyze operations, then proceeds to a discussion of project evaluation with a focus on relevant cash flows, and then finishes with a discussion of the appropriate required rate of return to be used in evaluating those cash flows.

GBA 484A/B. SIMON SCHOOL VENTURE FUND PRACTICUM FOR ANALYSTS/ MANAGEMENT

This course is a 1-credit practicum for 1st-year MBA and MS students who are accepted by the Management Team of the Simon Venture Fund (SVF) as an analyst. Students receive 1 credit in their first year for successful participation as analysts, registering in the Winter of their first year, and receiving a grade of Incomplete until their commitments to the Fund are completed in the Spring. Students returning for a second year at Simon, that are accepted into the Management Team of the SVF by the SVF Board, may then register for a 2-credit SVF Practicum in the Fall of their 2nd year to complete the sequence, receiving a grade of Incomplete until their Fund commitments are completed in the following Spring. The purpose of this practicum is to recognize and support the effective analysis and portfolio management functions of the SVF throughout the academic year. Instructor interaction with students is primarily advisory and ad hoc. 1st years primary contacts, training, evaluation and performance coordinators will be the SVF Student Management Team.

The SVF provides an environment where students can practice applying theories and skills acquired throughout the MBA and MS curriculums to such matters as venture capital fund operations; early stage business analysis; deal structure; and funding considerations faced by startups seeking capital investments. Vehicles for applied learning include performing due diligence on startups seeking SVF investment and making thoughtful and well-reasoned investment recommendations to the SVF Student Managers and Board; updating status and performance information for existing SVF investments; participating in creating portfolio reports for SVF stakeholders; participating as required in reporting and investment calls with the SVF Board; and participating as required in approved investment closing procedures.

GBA 486. MANAGEMENT OF TECHNOLOGY

This capstone course focuses on the strategies of international corporations that seek a sustainable competitive advantage through technological innovation. Instruction consists of lectures, guest speakers from the business community and case presentations. Topics include: the definition of corporate strategy; the C.E.O.’s role as leader as well as manager; the analysis of the firm’s competitive position; the development of the firm’s core competencies; the management of research and development; fast-cycle product development; cross-functional teams; achieving product quality through technology; a comparative analysis of patent law in the U.S. and other countries; structuring strategic alliances between large and small firms; international joint ventures; and the acquisition of small, high-tech firms by large corporations. Student teams play the role of principals in a management consulting firm (“Simon Associates”) that has been retained by the CEO of a technology-based corporation to develop strategic options and recommendations for the solution of a complex business problem with marketing, operations and financial implications. Oral presentations, management memos and written reports are graded on the clarity of presentation as well as the quality of analysis.

Prerequisite: completion of core courses
GBA 490. AMERICAN BUSINESS PRACTICE
Credit—one hour
This course is designed to give non-U.S. students an opportunity to apply business-management theories they have learned in their Simon School studies while they are assigned as interns (minimum of six weeks) with U.S. companies. Internships allow students to work in business settings/situations in which they receive on-the-job training from management personnel and gain valuable practical experience in performing professional-level tasks in their area(s) of concentration. GBA 490, which cannot be used to complete a concentration in the MBA program, is open only to non-U.S. students who are eligible to work in the United States. An eligible student, as defined by immigration regulations, is a degree candidate who has lawfully resided in the United States on visa status for at least one academic year (eight to nine months) prior to starting an internship position. Students who plan to enroll in GBA 490 must communicate with the University of Rochester’s International Services Office (ISO) regarding the submission of proper documentation for employment. They should inform Simon School Career Management of their plans to seek a business internship, and they should schedule an appointment with Career Management to discuss career interests and employment-search strategies. When an internship is obtained, the student must meet with a GBA 490 faculty advisor to prepare a proposal describing the location and nature of the assignment and the planned functional area of study. The proposal, which will include specific learning objectives, must be approved by the faculty advisor prior to the student’s acceptance of the internship. Upon completion of the internship assignment, the student must prepare a 10- to 12-page report detailing its outcome(s) and stating whether the proposed learning objectives were met.

Prerequisite: completion of all core courses

GBA 490E. INTEGRATING BUSINESS THEORY AND PRACTICE
Credit—one hour
This course is designed to give students an opportunity to apply business-management theories they have learned in their Simon School studies while they are assigned as unpaid interns. These unpaid internships allow students to work in business settings and situations in which they receive on-the-job training from management personnel and gain valuable practical experience in performing professional-level tasks in their area(s) of concentration.

GBA 491. READING COURSE
(Offered at the discretion of individual faculty)
Supervised reading and study on topics beyond those covered in existing formal courses.

GBA 493 INTERNATIONAL EXCHANGE PROGRAM
The Simon Business School offers International Exchange Programs to provide experience abroad to second year MBA students anticipating careers with an international focus. Students who participate in the program can receive up to nine hours of credit toward their Simon M.B.A. program.

Students whose GPA is 3.0 or higher may apply to spend one term of their second year at one of the Simon partner schools.

Students will take classes with native students as well as students from around the world. The program provides the opportunity to live and study in a foreign country to further develop language skills and to increase students’ multi-cultural awareness.

All courses must be approved before departure (or once the schedule for partner school is available). In general, courses transferred count as unrestricted electives.

GBA 494. FOREIGN LANGUAGE TRANSFER CREDIT
Credit—three hours

PHD COURSES

GBA 595. PHD RESEARCH
GBA 999. WRITING DISSERTATION

HEALTH SCIENCES MANAGEMENT
Gerard J. Wedig, Area Coordinator

MASTERS LEVEL COURSES

HSM 420. BUSINESS ECONOMICS OF THE HEALTH CARE INDUSTRY
HSM 420 uses the tools of managerial economics (such as cost-benefit analysis, organizational architecture, and the role of incentives) to analyze the business institutions, practices, and regulation of the health care industry. The course covers the health care value chain including: i) purchasers of health care services (e.g., government, private insurers, and employers); ii) providers of health care services (e.g., hospitals and physicians); and iii) manufacturers of medical devices, pharmaceuticals, and supplies. We seek to understand: the US healthcare system in an international context; the role technology plays in driving change in the industry; the fiscal crises that have spurred health care reform; how health care providers have used mergers, product line management, and information technology to address contemporary management challenges; the next stages in the evolution of managed care as embodied in Accountable Care Organizations and consumer-driven health care; important trends in health care delivery including quality measurement and reward, disease management, and pay-for-performance; and the adoption and financing of medical technology by health care organizations.

HSM 425. MANAGERIAL ACCOUNTING FOR HEALTH CARE ORGANIZATIONS
(Same as ACC 445)
Costs for health services continue to rise faster than overall economic growth drawing ever-greater attention from employers, governments, and consumers. The front line of the cost battle is within the health services entities where decision-making depends on accurate reporting of internal costs. This course allows the students to understand how costs are reported and how to use this information to make decisions within the health services entity. The following topics will be examined within a health services setting: cost allocation, cost-volume-profit analysis, budgeting and variance analysis, and transfer pricing.

HSM 430. HEALTH SCIENCES MANAGEMENT AND STRATEGY
(Same as STR 430)
This course applies the principles of organizational economics and strategy to the institutional setting of the health sciences. The course focuses on the interdependence between the delivery, financing, and technology sectors of the health care marketplace. It discusses how management and strategy choices within each sector are responses to the unique institutional factors in the health care marketplace and how the strategies of each sector affect the behavior of the others.

Prerequisite: STR 401 or GBA 461
Recommended: STR 403, STR 42

HSM 431. APPLICATIONS OF CORPORATE FINANCE AND GOVERNANCE TO HEALTH CARE
This course applies the principles of corporate finance and governance to the institutional setting of health care. It draws on the principles of financial valuation, investments and corporate financing, as well as the economics of organi-
izations and corporate governance, to analyze current management problems in the health care sector. The primary purpose of the course is to gain an understanding and comfort level with applying economic and financial theories within the unique institutional setting of health care.

Prerequisites: STR 403, ACC 410. In addition, it is strongly recommended that students complete FIN 413 and HSM 430 before taking this course.

HSM 437. MANAGING HEALTH CARE OPERATIONS
(Same as OMG 437)

The health care industry is undergoing rapid growth as well as rapid structural changes. New technology, changing reimbursement mechanisms, and increased competition create many interesting management problems, least of which in the area of health care operations. In this course, we will study the operations of various types of health care provider organizations (such as hospitals, HMO’s, group practices, nursing homes, etc.) and other participants in the industry (such as insurance companies, pharmaceutical companies, suppliers and consulting companies). Topics that will be studied include: patient and provider scheduling, capacity management, providing services and supplies to health care providers, new product development and integrated delivery systems. Students who took OMG 402 or similar need to obtain instructor’s permission prior to registration.

HSM 440. EVOLVING MEDICAL MARKETS

Firms supplying products and services to the health care industry face a variety of regulatory and marketing challenges that will be explored in this course. Topics include: the economics of developing and marketing new medical technologies, regulations affecting market structure, health and safety regulations and insurance markets. The course will cover evaluation tools frequently used in public policy debates and in marketing medical technologies including cost-benefit and cost-effectiveness analysis and quality of life indices.

HSM 450. ACCOUNTING, ECONOMICS, AND FINANCE FOR MS STUDENTS*

*Available only to MS students concentrating in Marketing and Health Sciences Management

This course is designed to present the fundamentals of economic analysis, financial accounting, and financial analysis that will serve as a foundation for concepts developed throughout subsequent courses in the Medical Management program. The objectives of this course are to enable participants to understand and productively use the principles of managerial economics and accounting information to structure business decisions. In addition, the course will address the principles of capital budgeting. The economics section covers foundational principles of microeconomics. The focus is on those principles with the greatest application for managers in health care, including supply and demand, the economic model of behavior, decision-making under uncertainty, gains from trade, externalities, demand, production, and cost functions, and basics of pricing. The accounting and finance module presents skills required to interpret and analyze common financial statements, and evaluate a company’s past performance and potential future performance. Specific topics of discussion include differences in financial statements of for-profit vs. not-for-profit entities, cash vs. accrual accounting, depreciation methodologies, and capital budgeting. Capital budgeting will include net present value (NPV), pay-back, accounting rate of return (ARR) and internal rate of return (IRR).

HSM 451. HEALTH CARE STRATEGY AND BUSINESS PLAN DEVELOPMENT

Basic marketing and economic concepts are integrated with the unique institutional features of health care markets to develop a framework for strategic and business planning for a health care organization. A special focus is placed on the practical elements of plan development.

HSM 452. HEALTH CARE ACCOUNTING AND FINANCE

Basic concepts in finance and financial accounting are combined with material developed in ACC 410 to develop a framework for financial decision making, financial planning, assessment, and control. The goal of the class is to provide students with a set of tools to first make financial decisions about programmatic development. In addition, students will be taught to assess and control programs toward specified financial goals.

HSM 453. HEALTH CARE OPERATIONS

This is an advanced course on operations management for health delivery organizations. We study the application of operations management concepts to the management of health care provider organizations (such as hospitals, group practices, HMO’s, nursing homes, etc.), and other participants in the health industry (such as insurance companies, pharmaceutical companies, consulting businesses, etc.). Applications include both medical and administrative operations. The course uses a mixture of cases, lectures, in-class exercises, and guest lecturers.

Part of this course is closely integrated with OMG 402, Operations Management extending and applying concepts from the introductory course to practical problems in health care administration. However, a significant part of the course focuses on quality and process improvement, a topic that is not covered in OMG 402.

HSM 454. LEADING HEALTH CARE ORGANIZATIONS

Concepts developed in STR 403 Organization and Strategy are applied within the evolving healthcare setting to teach the student how to organize tasks and motivate staff to achieve coordination and efficiency (including leadership, culture, change management, and team effectiveness).

HSM 455. HEALTH CARE PRACTICUM I

This course provides students with hands-on experience with a medical management project. It develops skills in identifying a problem, working with data, finding possible solutions and delivering recommendations, all within a fixed time frame. Students learn to produce analysis, but also have to argue persuasively that the recommendations based on the analysis are valuable and should be implemented. Projects require that students not only apply analyses learned in the classroom, but also that they argue persuasively that the recommendations based on the analyses are valuable and should be implemented. Teams of three to four students are responsible for the individual projects, and meet with the instructor individually. The organizations submitting projects must be willing to spend time with students and to provide appropriate data.

HSM 456. HEALTH CARE PRACTICUM II

A continuation of the project from HSM 455. Prerequisite: HSM 455

HSM 464. CREATING AND USING INFORMATION TO MANAGE HEALTHCARE

The objective of this course is to provide Healthcare executives with an understanding of the role that Information Technologies can play in driving care quality and financial performance in their organizations. It is intended to improve their ability to invest strategically and thoughtfully in IT to achieve the desired organizational returns. The course discusses how information technologies are reshaping
and redefining the healthcare sector through better care, efficiencies in the delivery of care, advanced tools for patient involvement and continuum of care, decision support tools for clinicians, and the generation of insight from digital exhaust. It teaches students how to critique and analyze various technology tools and systems currently available to health care professionals. The focus is largely on strategic level issues, although some implementation issues will also be discussed.

Management Science Methods

Masters Level Courses

MSM 400. Mathematics Review
Non-credit
Review of mathematical concepts prerequisite to the MBA program. Topics include: sets, vectors and matrices, functions and relations, linear equations, laws of exponents, limits and continuity, differentiation, maxima-minima, partial derivatives and simple integration.

MSM 491. Math for Management
Credit—two hours
This is a master’s level math class that is more intensive than MSM 400. Analysis and concepts in modern business analysis rely heavily on quantitative methods. Necessary theories and intuition behind them will be covered. The focus of the course is primarily on applications in business, economics and related areas.

PhD Courses

MSM 502. Linear Algebra
The goal of this course is to give an introduction to linear algebra. Topics include: Gaussian elimination, matrix operations, matrix inverses. Vector spaces and subspaces, linear independence, and the basis of a space. Row space and column space of a matrix, fundamental theorem of linear algebra, linear transformations. Orthogonal vectors and subspaces, orthogonal bases, and Gram-Schmidt method. Orthogonal projections, linear regression. Determinants: how to calculate them, properties, and applications. Calculating eigenvectors and eigenvalues, basic properties. Matrix diagonalization, application to difference equations and differential equations. Positive definite matrices, tests for positive definiteness, singular value decomposition. Classification of states, transience and recurrence, classes of states. Absorption, expected reward. Stationary and limiting distributions. Offered in the summer, primarily for entering doctoral students.

MSM 503. Optimization
This course covers Optimization in Rn, Weierstrass Theorem, Unconstrained optimization, Lagrange Theorem and equality constraints, Kuhn-Tucker Theorem and inequality constraints, Convexity, Parametric Monotonicity and Supermodularity. Offered in the summer, primarily for entering doctoral students.

MSM 504. Theory of Probability and Stochastic Processes I
The course provides an introduction to stochastic processes. Topics include the Poisson process, renewal theory, Markov chains, semi-Markov and Markov renewal processes, and regenerative processes.

Prerequisite: Some knowledge of functions of a real variable (MTH 265) and probability (BST 401)

MSM 505. Theory of Probability and Stochastic Processes II
This course will study advanced topics in stochastic processes, with emphasis on problem modeling and computation. The following topics will be covered: models using discrete time Markov chains, optimal stopping and discrete time Markov chains, models using continuous time Markov chains, Markov decision processes for discrete time Markov chains, and if time permits, diffusion processes/martingales.

MSM 511. Advanced Topics in CIS and OM
This course introduces students to research areas in Computers and Information Systems (CIS) and Operations Management (OM). Multiple lectures will be dedicated to each topic, covering the necessary mathematical background, primary analysis techniques, and important, seminal, or recent papers within each area. The course aims to attain the following objectives: learn about what constitutes research in CIS and OM, develop critical thinking about academic papers, familiarize students with new research areas, provide opportunity to think about new research problems, and practice constructing and delivering academic talks.

MSM 522. Optimization
This course introduces unconstrained and constrained optimization in finite dimensional spaces. Topics include convex sets and functions, Kuhn-Tucker theory, Lagrangian duality, parametric continuity, dynamic programming, and parametric monotonicity.

Prerequisite: Some knowledge of linear algebra and functions of a real variable

MSM 542. Queuing Theory and Applications
The course offers in-depth study of queues and networks of queues, including single- and multi-server-queues; Markovian models of phase-type systems; open-and-closed networks of queues; product-form solutions and local balance; bottleneck analysis approximations and computational aspects. It also covers applications to scheduling, resource allocation and capacity-expansion decisions in service systems, computer systems and job shops.

Prerequisite: MSM 504 or Medical School course BST 402, or permission of the instructor
MARKETING

Paul Ellickson, Area Coordinator

MASTERS LEVEL COURSES

MKT 402. MARKETING MANAGEMENT
This course is our introduction to marketing. The viewpoint is that of a manager making marketing decisions in a variety of competitive and institutional settings. Considered are: consumer behavior, marketing research, product design, advertising, salesforce management, pricing and distribution channels.

Prerequisites: STR 401 or GBA 461 and GBA 412 or GBA 462 (may be taken concurrently)

MKT 412. MARKETING RESEARCH
This course deals with the collection and use of data to support marketing decisions. The first part of the course teaches the student how to formulate the research problem, design the research and collect the data. Among the data-collection techniques discussed are: questionnaire design; telephone, mail and electronic surveys; and laboratory and field experiments. The second part of the course examines various techniques for analyzing data: cross-classification analysis, factor analysis, multidimensional scaling, conjoint analysis, etc. As part of the course requirements, teams of students design, administer, analyze and report on an actual marketing research study.

Prerequisites: MKT 402 and GBA 412 or GBA 462

MKT 412R. MARKETING RESEARCH USING R
This course deals with the collection and use of data to support marketing decisions while utilizing the basics of R. Among the data-collection techniques discussed are: questionnaire design; telephone, mail and electronic surveys; and laboratory and field experiments. The second part of the course examines various techniques for analyzing data: cross-classification analysis, factor analysis, multidimensional scaling, conjoint analysis, etc. As part of the course requirements, teams of students design, administer, analyze and report on an actual marketing research study.

Prerequisites: MKT 402 and GBA 412R or GBA 462

MKT 414. PRICING POLICIES
(Same as STR 423)

Pricing is one of the most important, least understood, and most controversial decisions a manager has to make. These decisions often have significant long-term implications for a firm’s bottom line. The purpose of this course is to help future managers make good decisions by preparing them to analyze the environment in which their firm operates and to arrive at an appropriate pricing policy for their product or service. More specifically, the objectives of the course are: 1) to develop an understanding of the relationship between a firm’s environment (e.g., cost, demand, competition, and legal aspects) and its optimal pricing strategy, and 2) to develop skills in applying this understanding.

There are several components to the course: elasticity of demand and relevant costs, price discrimination and market segmentation, and competitive pricing. Students will learn the fundamentals of economic-value analysis and break-even analysis, and will be made familiar with strategies such as bundling, tie-in sales, quantity discounts, product-line pricing, and demand buildup. The course will cover ways of predicting competitor-pricing responses, and it will discuss a firm’s legal environment as it pertains to pricing.

Prerequisites: STR 401 and MKT 402 (may be taken concurrently)

MKT 421. ADVANCED MARKETING STRATEGY
This course has three main threads. First and most centrally is practicing and extending concepts related to strategic marketing decisions about R&D, production, pricing, product, advertising, and channels. Second, students learn to infuse these decisions with market intelligence. Third, students learn to develop spreadsheet models to support strategic decisions and presentations to communicate the business case for strategic plans. In the process, the course extends frameworks related to segmentation, targeting, product positioning, advertising, and channels. In addition, the course will introduce frameworks related to negotiation and crisis management. Through the process of a course-long simulation, teams will be challenged through the simulation experience to understand their own strengths and weaknesses and to work better as a team.

MKT 431. CONSUMER BEHAVIOR
The course studies buyer behavior in consumer and industrial markets. Topics include: culture, social class, consumer involvement, motivation, knowledge, attitudes and group decision making. Besides theory, the course also covers applications to product, advertising and pricing decisions.

Prerequisite: MKT 402

MKT 432. NEW PRODUCT STRATEGY
This course examines the issues involved in the planning, justification, and development of new products. We will fold in best practices from organizations like Pragmatic Marketing and Strategyzer (Business Model Canvas/Value Proposition Design), along with the standard go-to processes and approaches followed in the business world today. The course explores the fundamentals of understanding market and customer needs to ensure products are developed based on market reality. We study the processes associated with the ideation, iteration and development of value propositions and explore how these value propositions must fit into a broader business model to find true success. Leading from this, we study new product development (NPD) processes, and explore the impact of disruptive innovation on crafting new solutions. We conclude with the exploration of the unique leadership skills required in a new product role. Select cases will be analyzed and discussed to embellish critical learnings. A term long project will have teams develop a value proposition and its associated business model.

Prerequisites: MKT 402 and GBA 412 or GBA 462

MKT 433. ADVERTISING STRATEGY
This course explores the tools available to marketers for the promotion of products and services. The integrated marketing communications philosophy is stressed, and principles of consumer behavior are discussed as the starting point for the analysis of promotion decisions. Advertising is the main focus of the course, and issues such as the setting of campaign objectives, segmentation and targeting, budgeting, media placement, message strategy, creative development, persuasion and measurement of advertising effectiveness are discussed. More specialized units consider Internet and global/cross-cultural advertising. Sales promotion techniques are also discussed, including consumer promotions (e.g., sampling, coupons, premiums, contests) and trade promotions (e.g., buying allowances, cooperative advertising). Other elements of promotion discussed include public relations, sponsorships and personal selling.

Prerequisite: MKT 402

MKT 435. CHANNELS STRATEGY
This course deals with the issues that arise in designing and managing distribution channels and salesforces. A central theme of the course is that these entities perform both a tactical/operational function as well as a strategic function and that both aspects need to be con-
sidered in their design and management. The course looks at a number of design options, ranging from direct distribution through a salesforce to a complex, multi-layered channel consisting of several layers of intermediaries such as wholesalers and retailers.

Managing a channel requires an understanding of the competitive and cooperative aspects of manufacturer-distributor relationships. The course evaluates the efficiency of contractual arrangements like exclusive territories, exclusive dealing requirements and resale-price maintenance from the manufacturer’s and the distributor’s point of view. Finally, an assortment of contemporary issues in channels—such as everyday low pricing versus promotional pricing, slotting allowances, the shift in bargaining power from manufacturers to retailers for consumer goods, growth of store-labeled brands, the role of the Internet and new forms of retailing—are discussed. In addition, a number of modeling and quantitative techniques are studied that help implement the strategies discussed in the course.

On the salesforce front, the course delves into a number of critical issues such as performance measurement, territory decision, quotas and compensation design.

Prerequisite: MKT 402

MKT 436. MARKETING ANALYTICS

Firms can now gather detailed real-world data on their customers, competitors and marketplace on an unprecedented scale. This volume of information will provide significant competitive advantages to those companies that are able to analyze and leverage these data sets to derive actionable business-building insights. This course will focus on what data sets, both big and small, can and cannot tell us. This analysis, however, requires a different toolset, and a different mindset than traditional survey data analysis. The tools and metrics of three kinds of data analysis will be covered: predictive, explanatory, and causal. These analyses require the use of modern programming languages due to their flexibility, and their ability to scale to large-scale and complex data sets. The course therefore expands students’ knowledge of R, a widely used, multiplatform language. Students can also use RStudio¹, which provides a more user friendly interface to this language.

Prerequisite: MKT 402

MKT 437. DIGITAL MARKETING STRATEGY (Same as CIS 437)

This course examines the major issues involved in marketing on the Internet. Among the topics studied are: new product opportunities on the Internet; the changed role of advertising; the Internet as a two-way communication medium with consumers; targeting individual consumers; word-of-mouth among consumers on the Internet; the Internet as a distribution channel; and marketing research on the Internet.

Prerequisite: MKT 402

MKT 438. B2B PRICING (Same as STR 438)

Students will learn the major differences in pricing strategies between selling to consumers as in MKT414/STR423 and to other firms which then deal with consumers. The course starts by analyzing the pricing problem of a manufacturer selling to a retailer. We examine the issue of double marginalization, and learn how two-part tariffs get us out of this problem. We also examine different forms of contractual relations—from vertical acquisitions to regular short-term contracts—and potential issues with every form, touching on transfer pricing and outsourcing. In the second part of the course, we analyze a crucial concept of cost pass-through (how much a retailer should decrease the retail price in response to a decrease in the wholesale price) and the effect of manufacturer’s advertising on the retailer and on the channel overall. This course is a natural continuation of Pricing for those who are interested in working in an industry where a significant portion of sales is done through independently-owned retailers, whether students are planning on working on the retailer side or on the manufacturer side of this industry.

Prerequisite: permission of the instructor

MKT 439. ADVANCED PRICING (Same as STR 439)

This course builds on MKT 414/STR 423 to equip students with the necessary skills to make profitable pricing decisions in complex business environments. Topics include: pricing with constrained supply, pricing in the presence of uncertainty about demand, markdown management, advance selling, pricing on the Internet, pricing in the presence of direct or indirect network effects, selling through auctions, and behavioral and ethical aspects of pricing. The course also includes a comprehensive pricing simulation.

Prerequisite: STR 423 or MKT 414

MKT 440. PRICING ANALYTICS

The objective of this course is to prepare students for the intuition and tools to make pricing recommendations in a variety of industrial contexts, and to meet the booming demand in pricing and consulting related careers. The course builds around key economic intuitions behind customer- and competition-driven pricing strategies, and focuses on the application of these strategies to a variety of pricing problems using state-of-the-art data analysis toolkit. We primarily study the decisions on price levels, and changes of prices along time, product line, market segments and competitor structure. We also explore synergies between pricing and marketing and new product launch decisions.

Prerequisite: MKT 436

MKT 441. BRAND MANAGEMENT

This course is the capstone course of the Brand Management Track. Lectures focus on scanner data analysis, and guest speakers discuss timely brand management topics. The main focus is a team project performed for a major consumer packaged goods firm, requiring the analysis of various current data sources, most notably scanner data. The major deliverable is a presentation to the client by each team of their findings. Typically, this amounts to performing a brand review.

MKT 442. SPECIAL TOPICS IN MARKETING

Special topics are generally those which are not well covered in other other courses, or they may deal with marketing in selected industries (e.g., financial services, high-tech marketing, etc.). The specific content of the course varies, depending on faculty interests.

Prerequisite: permission of the instructor
MKT 442G. APPLIED PRODUCT MANAGEMENT

Product Management requires outstanding business skills, strong cross-functional leadership, and the ability to discover market/customer needs and to develop profitable solutions to meet those needs. It also requires a set of very specific applied skills, and this course is intended to develop those skills. The class will focus on three primary areas:

- Ensuring Market Driven Development
- Ideating and Developing/Testing Prototypes
- Building Market Driven Roadmaps/Leading an Agile Development Process

Prerequisite: permission of the instructor

MKT 444. B2B MARKETING

This course involves all of the basic marketing functions but it takes on a totally different complexion in that it involves organizations (profit and not for profit) that acquire goods and services that are utilized in the production of others goods and services or are used in the overall operation of the organization.

Besides the major commercial organizations that make up a sizeable percentage of B2B companies, there are institutional organizations in the mix as well – hospitals, colleges, universities and government. B2B marketing involves several distinct characteristics such as: larger, fewer purchases, centralized buying decisions, multiple buying influences, close supplier/customer relationships etc.

The overall market tends to be global in nature and technology is a major influence.

Prerequisites: Dependent upon instructor.

MKT 449. GLOBAL MARKETING STRATEGY

This course will develop the concepts of marketing strategy in the context of the resource-based view of the firm and the market focus view of the firm. Marketing strategy formulation and implementation will be related to strategies at the corporate and business unit level as well as other functional areas of the organization. The analytical tools and concepts for strategic analysis will be developed from basic economic principles. Core MBA subject matter will be integrated in the course as a part of the analysis and construction of a marketing strategy. The course examines the importance of bilateral information flows between the firm and the marketplace in defining new product requirements, changing competitive conditions, product advertising, and strategic commitment.

The definition of new core capabilities and the use of existing unique resources in creating competitive advantage will be explored. Special emphasis will be given to the impact of globalization and technology on the formulation and implementation of marketing strategy.

Prerequisite: MKT 402

MKT 451. CONSUMER AND BRAND RESEARCH

This course is designed to give students the knowledge, vocabulary, and confidence to implement customized data analysis, using flexible and adaptable approaches. The course will cover the use of state-of-the-art computational data analysis techniques that are now possible with the widespread adoption of modern computing, including maximum likelihood estimation, and fitting models with custom metrics, optimization, bootstrapping, time series data, binary data, and discrete choice data.

Expanding on the topics covered in MKT 436, the course will explore questions such as: How do you customize your analysis approach to new problems? When should you or should you not use regression? How do you integrate the next big thing in data analysis?

The course will also discuss potential computational bottlenecks, and the techniques, software, and hardware to avoid them. Students’ basic R programming skills will be expanded. All instruction is “hands on” and students should expect to be proficient in R by the end of the course.

This course has been designed for students who have completed an introductory statistics course and who have also either taken MKT 436 or have a basic working knowledge of R.

MKT 465A/B. MARKETING ANALYTICS PROJECTS I & II

This course serves as a practical capstone experience for the MS Marketing Analytics program. Partnering with corporate sponsors, student teams put their training to use in database projects which address practical marketing issues. Corporate guest speakers and practicing analysts guide students in their project work. Strong emphasis is placed on the “context” for applied analytics: the competitive market environment of the firm, customer attributes and sensitivities, marketing program recommendations and optimum business decision making.
PHD COURSES

MKT 505. MARKETING RESEARCH PHD WORKSHOP

This workshop provides a forum for the presentation of research ideas and completed research by students. The course includes discussion of current job market papers and job market presentations, journal reviewing, and generating new research ideas. In addition, some topics are covered to illustrate current research areas of interest for the faculty. All marketing PhD students who are not on the job market are expected to participate actively. Prerequisite: permission of the instructor.

MKT 511. CORE RESEARCH TOPICS IN QUANTITATIVE MARKETING

This course is designed for first, second, and third year students to provide exposure to the literature related to core research methods used in quantitative marketing research and to build student appreciation of what goes into conducting research in quantitative marketing. The content of the course varies by year with similar core topics, but rotating papers, and some rotating topics. The core topics include choice models, aggregate demand models, Bayesian models, consumer heterogeneity, and state dependence. Rotating topics have included structural model identification, experimentation, causal inference, search, learning, advertising effects, and conjoint analysis, and rotate each year. In addition, the course provides exposures to other perspectives on quantitative research. Course evaluation includes coding assignments and homework’s, and the final exam has both coding and conceptual parts to it. In addition, the students are expected to submit a paper and present their own research. Prerequisite: permission of the instructor.

MKT 512. ADVANCED TOPICS IN QUANTITATIVE MARKETING RESEARCH

This course covers advanced topics in quantitative marketing research. The topics rotate each time offered and are selected based on current topical areas in the marketing, economics, and related fields as well as student and faculty research interests. Part of the evaluation in the course is to submit a paper and present their own research. All marketing PhD students who are not on the job market are expected to participate actively. Prerequisite: permission of the instructor.
Operations Management introduces the concepts and skills needed to design, manage, and improve service and manufacturing operations. The course develops a managerial perspective of the operations function and an appreciation of the role that operations plays in creating and maintaining a firm’s competitive edge. The course introduces process analysis, performance measurement systems for operations, and production control systems. Quantitative models and case studies apply these skills to service process management, manufacturing, inventory control, supply chain management and project management. The course highlights the role of effective operations management in the strategic direction of the firm as well as the connections between operations and other functional areas.

Prerequisites: CIS 401, GBA 411, and GBA 412 or GBA 462

OMG 411. SUPPLY CHAIN ANALYTICS

This course gives an overview of supply chain management in a wide variety of industries such as: groceries, style goods, consumer electronics and services. The impact of shifts from traditional channels to e-commerce will be emphasized. New initiatives introduced to address these new challenges, such as vendor managed inventory (VMI), variety postponement, cross docking, real options contracts and quick response, will be studied and applied both in class and assignments. Supporting software, such as Enterprise Resource Planning (ERP) and supply chain tools, will also be discussed.

Prerequisite: OMG 402

OMG 410. OPERATIONS MANAGEMENT

This course gives an overview of operations management in various industries such as: groceries, style goods, consumer electronics and services. The impact of shifts from traditional channels to e-commerce will be emphasized. New initiatives introduced to address these new challenges, such as vendor managed inventory (VMI), variety postponement, cross docking, real options contracts and quick response, will be studied and applied both in class and assignments. Supporting software, such as Enterprise Resource Planning (ERP) and supply chain tools, will also be discussed.

Prerequisite: OMG 402

OMG 412. SERVICE MANAGEMENT

Success of service management critically depends on managing the integration of business processes with customers as well as all related support systems (technology, human resources, information flow). This integration presents a challenge to service managers who need to address significant variation in customer expectations and requirements while controlling costs and remaining competitive. This course provides a foundation for the analysis and improvement of businesses, paying particular attention to the service sector. The type of analysis learned in this course is required in virtually every industry as companies work to improve their bottom-line performance. The best way to improve performance is through a holistic approach, where the structure of processes, information and technological requirements, and the managerial implications, are considered concurrently.

Prerequisite: OMG 402

OMG 413. OPERATIONS STRATEGY

For many firms, the operations function marshals the majority share of a firm’s assets and resources while producing products and services. Decision-making in operations have a decisive effect on both the cost and the attractiveness of the firm’s outputs. Thus the management of operations activities is a critical factor in a firm’s competitive strategy. This is a course that explores operations-related decisions in the context of overall business, operations, financial and marketing strategies. Strong emphasis is given to valuation of different operational strategies and NPV analysis. Many types of operations decisions are considered: location, capacity, sourcing, flexibility, and process choice. Risk management and financial evaluation of capital projects will be discussed. In addition to financial evaluation, students will analyze the fit of strategic choices in the competitive context a firm faces.

Prerequisite: OMG 402

OMG 415. PROCESS IMPROVEMENT

This course will teach a systematic method for understanding and improving ongoing business processes. The techniques learned in this class provide a systematic method of asking questions, collecting data, and analyzing that data to learn how processes work (or are failing) and what can be changed to improve them. The statistical techniques you will learn are SPC (Statistical Process Control, used as a proactive tool for investigation rather than its traditional role as a reactive tool), MSA (Measurement Systems Analysis, for determining if your measurement system is capable), FMEA (Failure Modes and Effects Analysis), and DOE (Design of Experiments). In addition to these analysis tools, there will be a strong emphasis on the process of data acquisition. To support the process of acquiring the right data and learning the analysis tools, you will do a small outside project for the class and a series of in-class simulations. You will learn to use two additional tools that support the questioning that leads to good data acquisition: process mapping (of the process you will be improving) and thought process mapping (of the process you use to solve the client’s problem).

Prerequisite: OMG 402

OMG 416. PROJECT MANAGEMENT

The topics treated in this course span a wide spectrum of issues, concepts, systems, and techniques for managing projects effectively in today’s complex business environment. Students are led through a complete project life cycle, from requirements analysis and project definition to start-up, reviews, and phaseout. Important techniques for controlling project costs, schedules, and performance are studied. The course employs a combination of lectures, case analyses, business/project simulations, videos, Internet resources, and group discussions to develop the conceptual understanding and operational skills needed for effective managerial role performance.

Prerequisite: OMG 402

OMG 437. MANAGING HEALTH CARE OPERATIONS

(Same as HSM 437)

The health care industry is undergoing rapid growth as well as rapid structural changes. New technology, changing reimbursement mechanisms, and increased competition create many interesting management problems, not in the least in the area of health care operations. In this course, we will study the operations of various types of health care provider organizations (such as hospitals, HMO’s, group practices, nursing homes, etc.) and other participants in the industry (such as insurance companies, pharmaceutical companies, suppliers and consulting companies). Topics that will be studied include: patient and provider scheduling, capacity management, providing services and supplies to health care providers, new product development and integrated delivery systems. Students who took OMG 402 need to obtain instructor’s permission prior to registration.

OMG 460. SPECIAL TOPICS IN OPERATIONS MANAGEMENT

This course provides a critical study of selected topics in operations management focusing on best practice and the status of research efforts to date. Potential topics are: yield management, operations and information management issues in retail fashion and media, transportation management, or customers’ relationship management.

Prerequisite: OMG 402
OMG 461. STRATEGY AND BUSINESS SYSTEMS CONSULTING PRACTICUM
(Same as CIS 461 and STR 461)

This course provides students with an introduction to strategy and business systems consulting. It is aimed at students who wish to explore career opportunities within the major consulting firms, but is also relevant for students considering a career as an independent consultant, or within a corporation’s internal consulting group. The course focuses on three areas:

• The Consulting Industry: Students will examine several types of consulting and understand where the major consulting firms position themselves. The career paths for students entering the industry, and the skills and values necessary for success as a consultant will be scrutinized.

• The Business Systems Consulting Process: The creation of proposals, winning of consulting engagements, and preparation of contracts will be discussed. The typical stages of a business systems consulting engagement and managing different sorts of consulting projects will be examined.

• Consulting Skills: The role of the consultant and the human dimension will be discussed. Diagnostic tools and data gathering techniques will be presented. Frameworks for problem solving, and communicating recommendations will also be introduced.

The course examines a wide range of modern global business challenges and opportunities from both the consultant’s and the manager’s perspectives and provides a learning platform to integrate and practice the skills and knowledge learned.
ADMINISTRATION

ANDREW AINSLIE
Dean; Frontier Communications/Rochester Telephone Professor of Business Administration; Professor of Marketing

As dean of Simon Business School, Andrew Ainslie will lead efforts to differentiate and strengthen the School’s curriculum, attract and retain faculty of the highest caliber, improve the student experience, and develop strong relationships with alumni and the business community. Before joining Simon, he served as senior associate dean for the full-time MBA program at the UCLA Anderson School of Management from 2010 to 2014. While at UCLA, Ainslie’s responsibilities included admissions, student services, and career placement. In the four years Ainslie was at Anderson, the school increased its admissions more than 60 percent, increased placements more than 20 percent, and revised its curriculum to better meet the demands of the market and the needs of the students. In addition to his duties as Anderson’s senior associate dean, Ainslie was associate professor of marketing at UCLA Anderson, and previously was assistant professor of marketing from 2000 to 2005. Prior to his time at Anderson, Ainslie was assistant professor of marketing at Cornell University’s Johnson Graduate School of Management from 1997 through 2000.

Dean Ainslie’s major research interests are in economic and statistical models of consumer behavior and in direct marketing. In particular, he is focused on developing variance component models for a variety of environments. Topics he has investigated include: new products and movie diffusion, model performance, and consumer behavior uncovered through choice modeling. Most recently, he is studying the effect of store characteristics on consumer purchasing behavior.

BSc, Electrical Engineering, University of Cape Town
MBA, Marketing, University of Cape Town
PhD, Marketing and Statistics, University of Chicago, Booth

RON GOETTLER
Senior Associate Dean of Faculty and Research; James N. Doyle Sr. Professor of Entrepreneurship; Professor of Economics, Marketing, and Entrepreneurship

Professor Goettler’s research spans quantitative marketing, industrial organization, and finance, with an emphasis on structural economic methods to understand consumer and firm behavior. He is particularly interested in high-tech industries, focusing on the relationship between competition and innovation and on the marketing of new products.

Goettler’s research has been published in various academic journals including the Journal of Political Economy, the RAND Journal of Economics, and the Journal of Marketing Research. His paper, “Equilibrium in a Dynamic Limit Order Market,” which appeared in the Journal of Finance, was nominated for the journal’s Smith-Breeden Prize and won the NYSE award for the best paper on equity trading at the 2004 Western Finance Association Meeting. Before joining the Simon School in 2012, Goettler was an assistant professor of marketing at the University of Chicago.

BA, Economics, Miami University
PhD, Economics, Yale University

GREGORY H. BAUER
Associate Dean of the Full-Time Programs; Rajesh Wadhawan Clinical Professor

Professor Bauer’s main area of research is international finance. He has published papers in the Review of Economic Studies, the Journal of Financial Economics, the Journal of Econometrics and the Journal of International Money and Finance, as well as in several policy-oriented journals. He is currently working on incorporating macroeconomic factors into term structure models using high frequency data.

Prior to joining Simon as Associate Dean, Bauer was the assistant director and research adviser in the Financial Markets Department at the Bank of Canada. At the bank, he was responsible for managing a group of nine PhD researchers who specialize in analyzing fixed income and foreign exchange markets. In addition, he coordinated the department’s annual research workshops.

Bauer holds the Chartered Financial Analyst (CFA) designation. Prior to obtaining his doctorate, Bauer was a foreign exchange trader at the Bank of Canada and a macroeconomist at the Ontario Ministry of Finance. Bauer is a four-time winner of the Superior Teaching Award from the Simon MBA program and a multiple winner of awards from the Executive MBA program.

BA, Applied Economics, University of Waterloo
MA, Economics, Queen’s University
MA, Finance, University of Pennsylvania
PhD, Finance, University of Pennsylvania
FACULTY

GUY ARIE
Assistant Professor of Business Administration
BSc, Computer Science and Philosophy, Tel Aviv University
MSc, Management Science, Tel Aviv University
PhD, Managerial Economics and Strategy, Northwestern University

KRISTINA BRECKO
Assistant Professor of Marketing
BA, Economics, Cornell University
MA, Economics, Stanford University
PhD, Marketing, Stanford University

JAMES A. BRICKLEY
Gleason Professor of Business Administration
BS, Economics, University of Oregon
MS, Economics, University of Oregon
PhD, Finance, University of Oregon

DANIEL J. BURNSIDE
Clinical Professor of Finance; Faculty Director of the MS Finance Program
BS, Engineering, Cornell University
MS, Engineering, Cornell University
MBA, University of Rochester
PhD, Engineering and Mathematics, Cornell University

RICHARD CARDOT
Faculty Director of the Barry Florescue Undergraduate Business Program
BS, Management Information Systems, St. John Fisher College
MBA, University of Rochester

YIXIN CHEN
Assistant Professor of Finance
B. Eng., Computer Science and Technology, Tsinghua University
MS, Finance, Massachusetts Institute of Technology
PhD, Finance, Massachusetts Institute of Technology

DELORES CONWAY
Professor of Real Estate Economics and Statistics
BS, Mathematics, Statistics, and Computer Science, University of Wisconsin-Madison
MS, Statistics, Stanford University
PhD, Statistics, Stanford University

RICHARD G. COUCH
Executive Professor
BS, Social Sciences, University of Buffalo
MS, Education, University of Rochester
MBA, University of Rochester

RAMONA DAGOSTINO
Assistant Professor of Finance
BA, International Economics and Management, Bocconi University
MS, Economics and Social Sciences, Bocconi University
PhD, Finance, London Business School

LINDA DALEY
Clinical Assistant Professor of Managerial Communications
BA, Journalism, St. Michael’s College
MA, Communication, University of New Mexico
PhD, Mass Communications, Syracuse University

RAJIV M. DEWAN
Xerox Professor of Business, Professor of Computers and Information Systems; Faculty Director of the MS Business Analytics Program
BTech, Indian Institute of Technology
MS, Computers and Information Systems and Operations Research, University of Rochester
PhD, Business Administration, University of Rochester

PAUL ELLICKSON
Michael and Diane Jones Professor of Business Administration
Professor of Marketing; Area Coordinator, Marketing
AB, Economics and Mathematics, University of California-Berkeley
PhD, Economics, Massachusetts Institute of Technology
TOM ESTAD  
Clinical Assistant Professor of Managerial Communications  
BS, Education, Mayville State University  
MA, English, Iowa State University

MARSHALL FREIMER  
Professor of Management Science, Computers and Information Systems (Retired)  
AB, Mathematics, Harvard University  
PhD, Mathematics, Harvard University

MICHAEL GOFMAN  
Assistant Professor of Finance  
BA, Economics, Tel-Aviv University  
MS, Finance, Tel-Aviv University  
MA, Economics, Tel-Aviv University  
PhD, Finance, University of Chicago

HARRY GROENEVELT  
Associate Professor of Operations Management  
BS, Econometrics, Vrije Universiteit  
MS, Econometrics, Vrije Universiteit  
PhD, Operations Research, Columbia University

RONALD W. HANSEN  
William H. Meckling Professor Emeritus of Business Administration  
BA, Mathematics, Northwestern University  
MA, Economics, University of Chicago  
PhD, Economics, University of Chicago

PREMA IYER  
Clinical Assistant Professor of Accounting  
BA, Business, Mumbai  
MBA, Finance, Saint Louis University

THOMAS H. JACKSON  
Distinguished University Professor and President Emeritus  
BA, American Studies, Williams College  
JD, Yale University

SUDARSHAN JAYARAMAN  
Wesray Professor of Business Administration; Professor of Accounting  
B.Com., University of Bombay  
MBA, Bentley College  
PhD, University of North Carolina-Chapel Hill

ROY JONES  
Clinical Associate Professor of Computers and Information Systems  
BA, History, Stanford University  
MS, Computer Science, Stanford University  
PhD, Operations, Information and Technology, Stanford University

RON KANIEL  
Jay S. and Jeanne P. Benet Professor of Finance  
BSc, Mathematics and Computer Science, Hebrew University of Jerusalem  
MSc, Computer Science, Hebrew University of Jerusalem  
PhD, Finance, University of Pennsylvania

YUFENG HUANG  
Assistant Professor of Marketing  
BSc, Economics, Sun Yat-sen University  
MS Research, Economics, Tilburg University  
PhD, Marketing, Tilburg University

GLENN D. HUELS  
Clinical Associate Professor of Accounting  
BS, Business Administration, State University of New York-Buffalo  
MBA, Rochester Institute of Technology

AVERY HAVIV  
Assistant Professor of Marketing  
BMath, Statistics, University of Waterloo  
MSc, Statistics, University of Toronto  
PhD, Quantitative Marketing, University of Toronto

VINCENT W. HOPE  
Clinical Assistant Professor of Marketing  
BS, Psychology, Denison University  
MBA, Finance, Rochester Institute of Technology
DENNIS KESSLER
Edward J. and Agnes V. Ackley Clinical Professor of Entrepreneurship
MA, Sociology, John Jay College of Criminal Justice
MSL, Yale University Law School
LLM, Northwestern University School of Law Certificate of Business Administration, Instituto de Empresa

JAEOO KIM
Assistant Professor of Accounting
BA, Economics, Korea University
MBA, Korea Advanced Institute of Science and Technology
PhD, University of Iowa

NARAYANA KOCHERLAKOTA
Lionel W. McKenzie Professor of Economics; Director of the Bradley Policy Research Center
AB, Economics, University of Chicago
PhD, Princeton University

PHILIP J. LEDERER
Associate Professor of Operations Management
BS, Physics, State University of New York-Stony Brook
MS, Applied Mathematics, Northwestern University
PhD, Applied Mathematics, Northwestern University

YOUNG SUN LEE
Clinical Assistant Professor of Managerial Communications
BA, Political Science, Chung-Ang University
MA, Journalism and Mass Communication, Chung-Ang University
PhD, Communications, Florida State University

KRISTIN LENNARZ
Clinical Assistant Professor of Marketing
BA, International Affair, Lewis and Clark College
MBA, Columbia University

JOHN B. LONG JR.
Frontier Communications/Rochester Telephone Professor Emeritus; Professor Emeritus of Finance
BA, Mathematics, Rice University
PhD, Industrial Administration, Carnegie Mellon University

MITCHELL J. LOVETT
Associate Professor of Marketing; Faculty Director of the PhD Program
BA, Mathematics, Economics, German, Ohio Wesleyan University
MBA, Boise State University
PhD, Business Administration, Duke University

RAVINDRA N. MANTENA
Clinical Associate Professor of Computer and Information Systems
BE, Electrical Engineering, Birla Institute of Technology and Science
MBA, Business Management, Indian Institute of Management
M.Phil, PhD, Information Systems, New York University

DREW MARSHERALL
Clinical Assistant Professor of Managerial Communications
BA, Communication/Journalism, St. John Fisher College
MA, Organizational Leadership, Medaille College
EdD, Executive Leadership, St. John Fisher

LAWRENCE J. MATTESON
Executive Professor of Business Administration
BS, Electrical Engineering, Union College
MS, Electrical Engineering, Rensselaer Polytechnic Institute
MBA, University of Rochester

ANDRÁS MIKLÓS
Clinical Assistant Professor
MA, Political Science, Central European University
PhD, Political Science, Central European University

JEANINE MIKLÓS-THAL
Associate Professor of Economics and Marketing
Propaedeuse, International Economic Studies, Maastricht University
Propaedeuse, Econometrics, Maastricht University
MA, Economics, Maastricht University
DEA, Economic Theory and Econometrics, University of Toulouse 1
PhD, Economics, University of Toulouse 1
DEREK MOHR  
*Clinical Associate Professor of Finance*

BA, Financial Administration, Michigan State University  
MS, Applied Economics, University of Rochester  
JD, School of Law, Case Western Reserve University

LIZA MOHR  
*Clinical Assistant Professor of Business Administration*

BA, Economics and Mathematics, Columbia University  
MA, Economics, University of Rochester

DUNCAN T. MOORE  
*Vice Provost for Entrepreneurship; Rudolf and Hilda Kingslake Professor of Optical Engineering; Professor of Biomedical Engineering; Professor of Business Administration; Area Coordinator, Entrepreneurship*

BA, Physics, University of Maine-Orono  
MS, Optics, University of Rochester  
PhD, Optics, University of Rochester

ALAN MOREIRA  
*Assistant Professor of Finance*

BS, Industrial Engineering, Rio de Janeiro Federal University  
MA, Economics, Rio de Janeiro Federal University  
PhD, Finance, University of Chicago

PAUL NELSON  
*Clinical Professor of Marketing; Faculty Director of the MS Marketing Analytics Program*

BA, Mathematics, Economics and Business, Macalester College  
MS, Business Administration, University of Rochester  
PhD, Business Administration, University of Rochester

ROBERT NOVY-MARX  
*Lori and Alan S. Zekelman Distinguished Professor of Finance*

BS, Physics, Swarthmore College  
PhD, Finance, University of California–Berkeley

SAM OGIE  
*Faculty Director of Health Sciences Programs*

BS, Mechanical Engineering, State University of New York-Buffalo  
MBA, University of Rochester

DAVID J. OLIVEIRI  
*Executive Professor of Business Administration*

BS, Accounting, University at Buffalo  
JD, University at Buffalo  
MBA, University of Rochester

DMITRY ORLOV  
*Assistant Professor of Finance*

Mathematics, Moscow State University  
Data Analysis, Moscow Institute of Physics and Technology  
PhD, Financial Economics, Stanford University

TOM PATTERSON  
*Sr. Lecturer of Managerial Communications*

BA, Art History, Washington and Lee University  
MA, Asian Studies, University of Texas-Austin  
MBA, University of Rochester

DAVID PRIMO  
*Ani and Mark Gabrellian Professor; Associate Professor of Political Science; Associate Professor of Business Administration*

BA, Economics and Political Science, Brown University  
MA, Political Sciences, Brown University  
MA, Economics, Stanford University  
PhD, Political Sciences, Stanford University

MICHAEL A. RAITH  
*Associate Professor of Economics and Management; Area Coordinator, Economics and Management*

Vordiplom, Economics, University of Bielefeld  
Vordiplom, Computer Science, Fernuniversität Hagen  
Diplom, Economics, University of Bonn  
PhD, Economics, London School of Economics

HEIKKI RANTAKARI  
*Associate Professor of Economics and Management*

BS, Economics, London School of Economics  
PhD, Massachusetts Institute of Technology
RICKY ROET-GREEN  
Assistant Professor of Operations Management  
BA, Economics and Political Science, Tel Aviv University  
MA, Political Science, Tel Aviv University  
MSc., Applied Mathematics, Tel Aviv University  
PhD, Operations Research, Tel Aviv University

HUAXIA RUI  
Associate Professor of Computers and Information Systems  
BE, ME, Control Science and Engineering, Tsinghua University  
PhD, Information Management, The University of Texas-Austin

RONALD M. SCHMIDT  
Janice M. and Joseph T. Willett Professor of Business Administration for Teaching and Service  
BA, Economics, The Ohio State University  
MA, Economics, The Ohio State University

BRYCE SCHOENBERGER  
Assistant Professor of Accounting  
MA, University of Colorado, Leads School of Business  
PhD, Accounting, University of Southern California

G. WILLIAM SCHWERT  
Distinguished University Professor and Professor of Finance and Statistics  
AB, Economics, Trinity College  
MBA, Finance, Econometrics, University of Chicago  
PhD, Finance, Econometrics, University of Chicago

ABRAHAM SEIDMANN  
Xerox Professor of Computers and Information Systems; and Area Coordinator, Computers and Information Systems, and Operations Management  
BSc, Industrial and Management Engineering, Technion, Israel Institute of Technology  
MSc, Operations Research, Technion, Israel Institute of Technology  
PhD, Industrial Engineering, Texas Tech University

GREG SHAFFER  
John M. Olin Distinguished Professor; Professor of Economics and Management and Marketing  
BA, Economics and Mathematics, Swarthmore College  
MA, Economics, Princeton University  
PhD, Economics, Princeton University

JOHN SCHLOFF  
Executive Professor  
BA, Economics, University of Southern California  
MBA, Pepperdine University

PAUL F. SHANAHAN  
Executive Professor  
BS, Management Law and Economics, Rensselaer Polytechnic Institute  
JD, Albany Law School of Union University

THOM SHAW  
Clinical Assistant Professor of Managerial Communications and Leadership  
BA, English, Yale University  
MA, English and American Literature, University of Chicago  
MFA, Creative Writing, Emerson College

YARON SHAPOSHNIK  
Assistant Professor of Operations Management  
BS, Information Systems Engineering, Technion- Israel Institute of Technology  
MS, Industrial Engineering, Technion- Israel Institute of Technology  
PhD, Operations Research, Massachusetts Institute of Technology

CAROL C. SHUHERK  
Clinical Assistant Professor of Managerial Communications  
PhD, Rhetoric and Communication, University of Oregon

CLIFFORD W. SMITH, JR  
Louise and Henry Epstein Professor of Business Administration and Professor of Finance and Economics  
BA, Economics, Emory University  
PhD, Economics, University of North Carolina-Chapel Hill
DAVID TILSON  
Clinical Associate Professor of Computers and Information Systems  
BEng, Electrical and Electronic Engineering, Queen’s University of Belfast  
MSc, Telecommunications Engineering, University of London  
MBA, Information Systems and Entrepreneurship, University of Texas-Austin  
PhD, Information Systems, Case Western Reserve University  

VERA TILSON  
Associate Professor of Operations Management  
SB, Electrical Engineering, Massachusetts Institute of Technology  
MS, Applied Mathematics, Colorado School of Mines  
PhD, Operations Management, Case Western Reserve University  

FRANK TORCHIO  
Executive Professor  
BA, Mathematics, Niagara University  
MBA, University of Rochester  

HEIDI TRIBUNELLA  
Clinical Professor of Accounting; Faculty Director of MS in Accountancy  
BS, Accounting, State University of New York-Geneseo  
MS, Accountancy, State University of New York Institute of Technology  
Certified Public Accountant, New York State License  

GIULIO TRIGILIA  
Assistant Professor of Finance  
MA, Economics, Collegio Carlo Alberto  
MA, International Relations, University of Bologna  
PhD, Economics, University of Warwick  

JEROLD B. WARNER  
Fred H. Gowen Professor of Business Administration; Professor of Finance and Area Coordinator, Finance  
BS, Economics, University of Pennsylvania  
MA, Operations Research, Yale University  
MBA, Economics and Finance, University of Chicago  
PhD, Economics and Finance, University of Chicago  

CHARLES E. WASLEY  
Joseph and Janice Willet Distinguished Scholar; Professor of Accounting  
BS, Accounting, State University of New York-Binghamton  
MS, Accounting, State University of New York-Binghamton  
PhD, Accounting, The University of Iowa  

GERARD J. WEDIG  
Associate Professor of Business Administration; Academic Director of Health Care Programs  
BS, Economics, Washington University  
MA, Economics, Harvard University  
PhD, Economics, Harvard University  

KURT WOJDAT  
Clinical Assistant Professor of Accounting  
BS, Accounting, State University of New York-Albany  
MBA, Finance, University of Rochester  
PhD, Accounting, University at Buffalo  

JOANNA WU  
Susanna and Evans Y. Lam Professor of Accounting; Area Coordinator of Accounting  
BA, International Economics, Beijing University  
MA, Economics, Tulane University  
PhD, Business Administration, Tulane University  

JASON XIAO  
Assistant Professor of Accounting  
BS, Business Administration, The Ohio State University  
PhD, Accounting, University of Pennsylvania  

CHENYU YANG  
Assistant Professor of Economics and Management  
BA, Mathematics, Gustavus Adolphus College  
PhD, Economics, University of Michigan  

JEROLD L. ZIMMERMAN  
Ronald L. Bittner Professor Emeritus; Professor Emeritus of Accounting  
BS, Finance, University of Colorado  
PhD, Business Administration, University of California-Berkeley
PAVEL ZRYUMOV  
Assistant Professor of Finance  
Mathematics, Moscow State University  
MA, Economics, New Economics School  
PhD, Finance, Stanford University

BARRY A. FRIEDMAN  
Lecturer in Economics and Management  
BS, Psychology and Political Science, University of Rochester  
PhD, Industrial and Organizational Psychology, The Ohio State University

RICHARD C. INGALACO  
Lecturer in Finance  
BA, Political Science, University of Rochester  
JD, University of Michigan

RAMI KATZ  
Lecturer in Entrepreneurship  
MBA, University of Rochester  
JD, Tel-Aviv University

GREGG LEDERMAN  
Lecturer in Marketing  
BS, Ithaca College School of Business  
MBA, University of Rochester

MICHAEL RIEDLINGER  
Lecturer in Entrepreneurship  
BFA, Rochester Institute of Technology  
MBA, Finance and Accounting, University of Rochester

JEFFREY SOKOL  
Lecturer in Entrepreneurship  
BS, Chemical Engineering, University of Rochester  
MBA, University of Rochester

THOMAS TRIBUNELLA  
Lecturer in Accounting  
MBA, Accounting, Rochester Institute of Technology  
PhD, Information Science, State University of New York-Albany  
Certified Public Accountant, New York State License

MARK W. WILSON  
Lecturer in Entrepreneurship  
BS, Mechanical Engineering, Rensselaer Polytechnic Institute  
MS, Mechanical Engineering, Rensselaer Polytechnic Institute