Business and Economics Graduate Programs and Courses

The College of Business is accredited by AACSB International - the Association to Advance Collegiate Schools of Business. Graduate degree programs offered by the college include the Master of Business Administration, the Master of Science in Accounting and Information Analysis, the Master of Science in Accounting (for non-accounting majors), the Master of Science in Applied Economics, the Master of Science in Management, and the Ph.D. in Business and Economics. Interdisciplinary degree programs (http://catalog.lehigh.edu/coursesprogramsandcurricula/interdisciplinarygraduatestudyandresearch/) are offered through partnerships with other colleges: P.C. Rossin College of Engineering and Applied Science - Master of Business Administration and Engineering; P.C. Rossin College of Engineering and Applied Science and the College of Arts and Sciences-Master of Science in Financial Engineering; College of Education-Master of Business Administration and Educational Leadership.

Courses for the programs are taught by faculty from the Accounting (http://catalog.lehigh.edu/coursesprogramsandcurricula/businessandeconomics/accounting/#faculty), Data and Technology Analytics (DATA, Business Information Systems (https://catalog.lehigh.edu/coursesprogramsandcurricula/businessandeconomics/businessinformationsystems/)) and Supply Chain Management (https://catalog.lehigh.edu/coursesprogramsandcurricula/businessandeconomics/supplychainmanagement/)), Economics (http://catalog.lehigh.edu/coursesprogramsandcurricula/businessandeconomics/economics/#faculty), Finance (http://catalog.lehigh.edu/coursesprogramsandcurricula/businessandeconomics/finance/#faculty), Management (http://catalog.lehigh.edu/coursesprogramsandcurricula/businessandeconomics/management/#faculty), and Marketing (http://catalog.lehigh.edu/coursesprogramsandcurricula/businessandeconomics/marketing/#faculty) departments.

GRADUATE DEGREES IN BUSINESS ADMINISTRATION AND ECONOMICS

Candidates for admission to graduate study in the College of Business may be required to provide the results obtained in the Graduate Management Admissions Test (GMAT) or the Graduate Record Examination general test (GRE).

International applicants are required to submit evidence of English proficiency through one of the following methods: a) prior study in a country where the primary language is English, b) by taking the Test of English as a Foreign Language (TOEFL) examination, c) by taking The International English Language Testing System (IELTS) examination, or d) by taking the Duoling English Assessment for admission to the program. Please consult with your program of choice to determine which requirements are appropriate for submission.

MASTER OF BUSINESS ADMINISTRATION

Lehigh MBA programs provide rich learning experiences for students. The College of Business offers two MBA programs: the One Year, Full-Time MBA program (1-MBA), and the FLEX MBA program.

ONE YEAR, FULL-TIME MBA PROGRAM

The One Year Full-Time MBA Program (henceforth 1-MBA) is designed for individuals who already have at least two years of work experience and wish to either pivot their careers into a business-related area which may not be in their previous field of employment or accelerate their career within their chosen field. This MBA program is designed to accommodate those from non-business related fields, as well as students whose undergraduate major is in business but who may want to change their focus, such as from finance to marketing.

The 1-MBA program, which starts each summer, is a cohort-based, lockstep program initially to develop core knowledge of functional areas and team building. These courses emphasize a stakeholder perspectives approach. A consulting practicum provides students with substantive and practical hands-on experience. The final part of the program emphasizes building domain expertise via electives and a focus on data analytics and leadership. Another feature is a dedicated coaching team consisting of a professional staff member, an alumnus, and a faculty member.

The program offers general elective course work or a concentration in Business Analytics.

Program Requirements

The following are pre-requisites for students prior to arrival on campus to begin the program:

1. Calculus knowledge as evidenced by an acceptable grade in a college-level calculus class.
2. English proficiency (for international students) as evidenced by a high TOEFL or IELTS score and via interviews by the admissions committee.
3. Economics knowledge as evidenced by an acceptable grade in a college-level elementary economics course.
4. Acceptable grades in Approved Online Tests as determined by program faculty, such as (a) Quantitative Methods, (b) Statistics, (c) Excel

ONE-YEAR FULL-TIME MBA PROGRAM, GENERAL (MAJOR: BUSINESS ADMINISTRATION)

<table>
<thead>
<tr>
<th>Summer Semester</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMGT 409</td>
<td>Project Management Fundamentals 3</td>
</tr>
<tr>
<td>MBA 440</td>
<td>Quantitative Methods 3</td>
</tr>
<tr>
<td>MBA 441</td>
<td>Professional Development 1</td>
</tr>
<tr>
<td>MBA 442</td>
<td>Societal Shifts I 2</td>
</tr>
<tr>
<td>Orientation (Non-credit requirement)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module I (7 weeks)</td>
<td></td>
</tr>
<tr>
<td>MBA 451</td>
<td>Accounting 1-MBA 1.5</td>
</tr>
<tr>
<td>MBA 452</td>
<td>Economics and Markets 1-MBA 1.5</td>
</tr>
<tr>
<td>MBA 453</td>
<td>Finance 1-MBA 1.5</td>
</tr>
<tr>
<td>MBA 454</td>
<td>Management - OB/HR 1-MBA 1.5</td>
</tr>
<tr>
<td>MBA 455</td>
<td>Marketing 1-MBA 1.5</td>
</tr>
<tr>
<td>Module II (7 weeks)</td>
<td></td>
</tr>
<tr>
<td>Stakeholders Perspective</td>
<td></td>
</tr>
<tr>
<td>MBA 456</td>
<td>Strategy 1-MBA 1.5</td>
</tr>
<tr>
<td>MBA 461</td>
<td>Financial Claimants 1-MBA 1.5</td>
</tr>
<tr>
<td>MBA 462</td>
<td>Government &amp; Society 1-MBA 1.5</td>
</tr>
<tr>
<td>MBA 463</td>
<td>Suppliers and Customers 1-MBA 1.5</td>
</tr>
<tr>
<td>MBA 464</td>
<td>Employees 1-MBA 1.5</td>
</tr>
<tr>
<td>Module III (14 weeks)</td>
<td></td>
</tr>
<tr>
<td>MBA 441</td>
<td>Professional Development 1</td>
</tr>
<tr>
<td>MBA 457</td>
<td>Consulting Practicum I 2</td>
</tr>
<tr>
<td>Winter Intersession</td>
<td></td>
</tr>
<tr>
<td>MBA 443</td>
<td>Societal Shifts II 4</td>
</tr>
</tbody>
</table>
Innovative Structure

The FLEX MBA program will further the development of organizational leaders and managers. This is accomplished by honing students’ knowledge, skills, and abilities through a comprehensive and integrated core curriculum and customized concentrations designed to meet individual needs. The FLEX MBA program will also foster life-long learning through continuing professional education programs.

FLEX MBA Mission Statement

The FLEX MBA program will further the development of organizational leaders and managers. This is accomplished by honing students’ knowledge, skills, and abilities through a comprehensive and integrated core curriculum and customized concentrations designed to meet individual needs. The FLEX MBA program will also foster life-long learning through continuing professional education programs.

Innovative Structure

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 401</td>
<td>Introduction to the Organization and its Environment</td>
<td>2</td>
</tr>
<tr>
<td>MBA 402</td>
<td>Managing Financial and Physical Resources</td>
<td>4</td>
</tr>
<tr>
<td>MBA 403</td>
<td>Managing Information</td>
<td>4</td>
</tr>
<tr>
<td>MBA 404</td>
<td>Managing Products and Services</td>
<td>4</td>
</tr>
<tr>
<td>MBA 405</td>
<td>Managing People</td>
<td>4</td>
</tr>
<tr>
<td>MBA 406</td>
<td>Integrative Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 15 credit hours of elective course work. Students may design an area of study in consultation with their advisor or select an area of concentration. Concentrations require the completion of 12 credit hours of the 15 credits required for elective course work. Students may also complete a maximum of six credit hours of electives outside the College of Business (but within Lehigh University) with proper approvals. All elective courses must be at the 400 level.

Total Credits 36

Business Analytics Concentration

Credits Required 12

Directed Electives (6 credits)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 458</td>
<td>Data Management for Managers</td>
<td>3</td>
</tr>
<tr>
<td>AND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIS 448</td>
<td>Predictive Analytics in Business</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIS 456</td>
<td>Business Analytics for Decision Making</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Choose 6 credits:</td>
<td></td>
</tr>
<tr>
<td>BIS 452</td>
<td>Business Analytics and Modelling</td>
<td>3</td>
</tr>
<tr>
<td>ECO 403</td>
<td>Econometric Software</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 424</td>
<td>Advanced Topics in Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 466</td>
<td>Marketing Research and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MACC 430</td>
<td>Data Analytics for Accountants</td>
<td>3</td>
</tr>
<tr>
<td><strong>Corporate Entrepreneurship Concentration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credits Required</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 12 credits from any of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GBEN 401</td>
<td>Business Plan I</td>
<td>2</td>
</tr>
<tr>
<td>GBEN 402</td>
<td>Business Plan II</td>
<td>2</td>
</tr>
<tr>
<td>GBEN 403</td>
<td>Anatomy of Entrepreneurship</td>
<td>1</td>
</tr>
<tr>
<td>GBEN 404</td>
<td>Market Opportunity</td>
<td>1</td>
</tr>
<tr>
<td>GBEN 405</td>
<td>Intellectual Property</td>
<td>1</td>
</tr>
<tr>
<td>GBEN 406</td>
<td>Performing Due Diligence</td>
<td>1</td>
</tr>
<tr>
<td>GBEN 407</td>
<td>Startups &amp; Pivotals</td>
<td>1</td>
</tr>
<tr>
<td>GBEN 409</td>
<td>Financial Forecasting</td>
<td>1</td>
</tr>
<tr>
<td>GBEN 410</td>
<td>Financing Startups</td>
<td>1</td>
</tr>
<tr>
<td>GBEN 412</td>
<td>Going Public</td>
<td>1</td>
</tr>
<tr>
<td>GBEN 413</td>
<td>Integrative Experience/New Venture Internship</td>
<td>1-4</td>
</tr>
<tr>
<td>GBEN 414</td>
<td>Ventures in Brand Licensing</td>
<td>1</td>
</tr>
<tr>
<td>GBEN 415</td>
<td>LehighSiliconValley</td>
<td>1-3</td>
</tr>
<tr>
<td>GBEN 492</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
<tr>
<td><strong>Finance Concentration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credits Required</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Directed Electives (6 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GBUS 419</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 420</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>Choose 2 of 3 courses (6 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GBUS 424</td>
<td>Advanced Topics in Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 426</td>
<td>Financial Markets and Institutions</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 473</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td><strong>International Business Concentration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credits Required</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 9 credits from the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GBUS 473</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 475</td>
<td>Global Marketing Strategies</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 492</td>
<td>Special Topics (Repeatable, includes immersion trips)</td>
<td>1-4</td>
</tr>
<tr>
<td><strong>Marketing Concentration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credits Required</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Select 12 credits from the following:</td>
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<td></td>
</tr>
<tr>
<td>GBUS 480</td>
<td>Strategic Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 485</td>
<td>Creating Breakthrough Innovations</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 486</td>
<td>Marketing Research and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 487</td>
<td>Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 488</td>
<td>Future of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 470</td>
<td>Marketing Communications Strategies</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 471</td>
<td>Strategic Brand Management</td>
<td>3</td>
</tr>
<tr>
<td>GBUS 475</td>
<td>Global Marketing Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Project Management Concentration**

<table>
<thead>
<tr>
<th>Credits Required</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directed Electives (7 credits)</td>
<td></td>
</tr>
<tr>
<td>PMGT 409 Project Management Fundamentals</td>
<td></td>
</tr>
<tr>
<td>PMGT 410 Project Requirements and Scope Management</td>
<td></td>
</tr>
<tr>
<td>PMGT 411 Project Scheduling, Estimating &amp; Budgeting</td>
<td></td>
</tr>
<tr>
<td>PMGT 413 Project Risk Management</td>
<td></td>
</tr>
<tr>
<td>PMGT 416 Decision Making and Ethics on Projects</td>
<td></td>
</tr>
<tr>
<td>Choose 5 credits:</td>
<td></td>
</tr>
<tr>
<td>PMGT 412 Advanced Scheduling &amp; Scheduling Tools</td>
<td></td>
</tr>
<tr>
<td>PMGT 414 Managing Project Quality</td>
<td></td>
</tr>
<tr>
<td>PMGT 415 Project Procurement &amp; Negotiation</td>
<td></td>
</tr>
<tr>
<td>PMGT 417 Project Leadership</td>
<td></td>
</tr>
<tr>
<td>PMGT 418 Facilitation and Teamwork for Projects</td>
<td></td>
</tr>
<tr>
<td>PMGT 419 Adaptive and Agile Project Management</td>
<td></td>
</tr>
<tr>
<td>PMGT 420 Managing Projects for Innovation</td>
<td></td>
</tr>
<tr>
<td>PMGT 421 Project Management Capstone</td>
<td></td>
</tr>
</tbody>
</table>

**Supply Chain Management Concentration**

<table>
<thead>
<tr>
<th>Credits Required</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directed Electives (9 credits)</td>
<td></td>
</tr>
<tr>
<td>GBUS 432 Demand and Supply Chain Planning</td>
<td></td>
</tr>
<tr>
<td>GBUS 450 Strategic Supply Management</td>
<td></td>
</tr>
<tr>
<td>GBUS 453 Transportation and Logistics Management</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits</td>
<td></td>
</tr>
<tr>
<td>GBUS 447 Negotiation</td>
<td></td>
</tr>
<tr>
<td>GBUS 456 Applied Supply Chain Models</td>
<td></td>
</tr>
<tr>
<td>BIS 456 Business Analytics for Decision Making</td>
<td></td>
</tr>
<tr>
<td>GBUS 492 Special Topics</td>
<td></td>
</tr>
</tbody>
</table>

**Prerequisites**

Students should have completed undergraduate courses in computer literacy, and principles of microeconomics and macroeconomics. The prerequisites of financial accounting and statistics may be completed after acceptance into the Flex MBA program.

The statistics prerequisite may be fulfilled by having taken a class within the past 5 years and receiving a “B” or better, by taking a proficiency exam administered through the College, or by enrolling in Basic Statistics for Business and Industry or equivalent. The Accounting prerequisite may be waived by enrolling in Financial Accounting for Managers and Investors at Lehigh or by taking a proficiency exam administered by the College.

If a student has no previous background in financial accounting or statistics, he/she is encouraged to take a course in the subject area. If a student has previously taken coursework but has not achieved a grade of “B” or the course has exceeded the time limit, self-directed learning and a proficiency exam may be appropriate.

The prerequisites of financial accounting and statistics must be completed before enrolling in MBA 402 Managing Financial and Physical Resources and/or MBA 403 Managing Information.

**Waiver Policy**

There are no waivers for courses in the Flex MBA Program.

**GMAT or GRE Scores**

All applicants are required to take the Graduate Management Admissions Test (GMAT) administered by Pearson Vue or the Graduate Record Exam (GRE) administered by the Educational Testing Service (ETS). Only GRE scores from the revised version taken after August 1, 2011 will be accepted.
Work Experience
Students are required to have a minimum of 2 years of full-time, professional work experience.

International Students/TOEFL
International students must have 16 years of formal education, including four years at the university level, to be considered for admission to Lehigh’s graduate programs. Applicants whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). For information, write or call the TOEFL Registration Office, P.O. Box 6154, Princeton, N.J., 08541-6154 or at www.toefl.org (http://www.toefl.org).

Flexible Class Scheduling
Classes are scheduled Monday through Thursday evenings, with seminars offered on Fridays and Saturdays and full week immersions available. Part-time students may complete the entire program with evening classes. Many students accelerate the completion of the program by taking courses during the two six-week summer sessions.

Further information about the FLEX MBA Program may be obtained by contacting the Graduate Programs Office of the College of Business, Lehigh University, College of Business, 621 Taylor Street, Bethlehem PA 18015
phone: (610) 758-4450
email: business@lehigh.edu
https://business.lehigh.edu/flex-mba

MASTER OF BUSINESS ADMINISTRATION AND EDUCATIONAL LEADERSHIP
The MBA & Educational Leadership joint degree program offers students the opportunity to acquire a solid foundation in both business and education. Designed to develop the administrative skills required in today’s educational systems, the MBA/Ed. Leadership provides a framework where excellent education and sound business practices can flourish. The MBA/Ed. Leadership will provide an additional option for business students in educational leadership. The program will enhance the student’s marketability in private and public sector education while providing students with an understanding of the cultures of both business and education. Core courses from both colleges will ensure that recipients of the joint degree will bring to their future positions an extraordinary medley of skills to manage human and financial resources efficiently while employing expertise in instructional supervision and training in both education and corporate settings. This program of study will enhance training and skills for those currently in the area of business and financial management in the field of education. The Lehigh MBA and Educational Leadership degree is a joint, 45 credit hour program.

ADMISSION REQUIREMENTS
Applications need to be approved through both the MBA program and the Educational Leadership program. Students are required to take the GMAT. Students must have at least 2 years of professional postgraduate work experience to apply for this joint degree program.

Further information about the program may be obtained by contacting Dr. Floyd D. Beachum, Associate Professor, College of Education, 610-758-5955, fdb209@lehigh.edu, or the Graduate Programs Office of the College of Business, phone: (610) 758-4450, business@lehigh.edu.
https://business.lehigh.edu/academics/graduate/masters-programs/flex-mba/mba-educational-leadership

MASTER OF BUSINESS ADMINISTRATION AND ENGINEERING
The University is committed to developing leaders in business and in industry; the MBA & Engineering degree unites two premier programs in one powerful joint degree by offering a solid foundation in both business and engineering.

Graduates of the MBA & Engineering program will be prepared to assume leadership positions in industrial planning, venture capital, and engineering management; and as senior managers in roles requiring both technical and business acumen.

The 45 credit hour program is taught in an interactive manner by faculty who are leaders in their fields with a wealth of practical experience; it also combines core business courses and a core of engineering courses:

The basic 45 credit hour course sequence consists of:

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA core courses</td>
<td>18</td>
</tr>
<tr>
<td>Engineering core courses</td>
<td>12</td>
</tr>
<tr>
<td>Business electives</td>
<td>5</td>
</tr>
<tr>
<td>Engineering electives</td>
<td>6</td>
</tr>
<tr>
<td>Free electives</td>
<td>3</td>
</tr>
<tr>
<td>Integrated project</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>45</strong></td>
</tr>
</tbody>
</table>

Students can choose an appropriate engineering curriculum from any of the following programs – chemical engineering, civil engineering, computer engineering, computer science, electrical engineering, environmental engineering, industrial and systems engineering, manufacturing systems engineering, materials science and engineering, mechanical engineering, or polymer science and engineering.

**MBA Core Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 401</td>
<td>Introduction to the Organization and Its Environment</td>
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</tr>
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<td>Managing Financial and Physical Resources</td>
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<tr>
<td>MBA 403</td>
<td>Managing Information</td>
<td>4</td>
</tr>
<tr>
<td>MBA 404</td>
<td>Managing Products and Services</td>
<td>4</td>
</tr>
<tr>
<td>MBA 405</td>
<td>Managing People</td>
<td>4</td>
</tr>
</tbody>
</table>

**ENGINEERING CORE COURSES**

Each engineering program has its own set of core courses. Course choices are intended to be as flexible as possible, and are tailored to meet the needs of individual students. Further information can be obtained from the appropriate departmental graduate coordinator, or from the Office of Graduate Studies (610-758-6310) in the P.C. Rossin College of Engineering and Applied Science.

**E lectives**

Engineering electives are chosen from courses in the appropriate P.C. Rossin College of Engineering and Applied Science (RCEAS) engineering program and the business electives are selected from course offerings in COB. Electives can also be chosen from joint courses that are being developed by RCEAS & COB.

**Project**

A short interdisciplinary project is required of all students. Project topics, based on the specific interests of each student, will be developed by RCEAS faculty.

**Admissions**

Applications must be accepted by the MBA program and by the relevant department in the P.C. Rossin College of Engineering and Applied Science. When required by the engineering program, students must take the GRE. If this is not required, then the GMAT or GRE examination must be taken. Students will not be required to take both tests.

Further information can be obtained from:
Office of Graduate Studies
P.C. Rossin College of Engineering & Applied Science
610-758-6310
www.lehigh.edu/engineering (http://www.lehigh.edu/engineering/)
or
The Graduate Programs Office
College of Business
610-758-4450
Further information about the Executive MBA Program (https://business.lehigh.edu/executive-mba/) (EMBA) may be obtained by contacting the Graduate Programs Office of the College of Business, Lehigh University, 621 Taylor Street, Bethlehem PA 18015 phone: (610) 758-4450
email: business@lehigh.edu

MASTER OF SCIENCE IN ACCOUNTING AND INFORMATION ANALYSIS
The Lehigh Master of Science in Accounting and Information Analysis (MSAIA) degree program offers an outstanding opportunity to prepare for a career in today’s demanding field of accounting. Accounting professionals are engaged in a variety of services, including assurance (auditing), business valuation, information resources, and consulting. The program focuses on using information and technology to improve business processes and forge business solutions. Accredited by AASCB International, the Association to Advance Collegiate Schools of Business, Lehigh’s M.S. in Accounting and Information Analysis program satisfies the 150-hour CPA educational requirement adopted by almost all states. The program serves as an excellent foundation for professional careers as CPAs, CMAs, and related fields. It provides the broad business education employers value so highly.

The Master of Science in Accounting and Information Analysis curriculum is designed to be flexible so that students may choose to concentrate their electives in a specific field, such as finance, or use them for breadth.

Students are encouraged to obtain an internship during the summer prior to beginning the program. The internship will complement the chosen concentration and provide an excellent practical framework to enrich the academic coursework experience.

Non-Accounting Majors
The M.S. in Accounting and Information Analysis program seeks applicants from a variety of academic backgrounds. Those with undergraduate business degrees in fields other than accounting often lack eighteen credits of background requirements in intermediate accounting, cost accounting, accounting information systems, fundamentals of federal income taxation, and auditing. To the extent possible, applicants should take those courses during their undergraduate programs.

Applicants who do not have an undergraduate business degree will likely require two years to complete the program. The first year is devoted to background courses and the second to the graduate program itself.

Mission Statement
Lehigh University’s Master of Science in Accounting and Information Analysis provides a broad business education and the specialized coursework for a professional career in accounting. Graduates aspire to leadership positions at top-tier organizations in fields that include public accounting, corporate accounting, financial services, consulting, and information systems. Through this program, Lehigh continues a long tradition of providing accounting majors with the necessary educational requisites for licensure as certified public accountants within the United States and its territories. The program seeks only the best and the brightest applicants: motivated, dedicated to their studies, not afraid of challenges, possessing confidence, self-discipline, and the ability to articulate their ideas orally and in writing. The program continually pursues the excellence necessary to meet the standards of only the highest-quality educational institutions.

Core Program
The MSAIA core consists of eighteen credits in the courses shown below and thirty credits overall. Designed specifically for this program, and dedicated to it, these innovative courses seek to develop a set of skills and experiences not available in undergraduate programs that will enhance MSAIA students’ ability to perform throughout their chosen careers. Core courses are offered each academic year.
The MSAIA curriculum provides for twelve elective credits that students may use to specialize in an area of interest or to augment one’s general business education. Frequently taken electives include graduate-level courses in predictive analytics, business information systems, taxation and business decisions, financial statement analysis, corporate financial management, investments, strategic supply management, managerial economics, and strategic marketing management.

Waiver Policy
There are no waivers for courses in the M.S. in Accounting and Information Analysis Program.

GMAT Scores
Submission of a Graduate Management Admissions Test (GMAT) score is optional for MSAIA applicants who have (1) earned an undergraduate degree from an accredited U.S. college or university with an overall undergraduate GPA of 3.3 or better and (2) achieved transcript documented letter grades of B or better in:

(1) at least TWO quantitative undergraduate courses (e.g., calculus, statistics, data analytics) and
(2) at least TWO higher-level accounting courses (i.e., beyond the introductory level).

Students must submit course descriptions/syllabi to business@lehigh.edu for such coursework to be considered. Applicants who choose not to submit a GMAT test score and who meet the criteria above will have their applications reviewed by the admissions committee, but this is no guarantee of acceptance.

Also, Lehigh accounting majors applying to the MSAIA program do not need to submit GMAT scores.

President’s Scholars
President’s Scholars must meet normal admission standards.

International Students/TOEFL®
International students must have 16 years of formal education, including four years at the university level, to be considered for admission to Lehigh’s graduate programs. Applicants whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL®). For information, contact www.ets.org/toefl. The MSAIA program features considerable student/faculty interaction in class. Very good English language skills are therefore highly important to success in the program. An internet-based TOEFL (IBT) of 105 will improve the prospects for admission. Admitted applicants typically are required to complete the English as a Second Language American Business English (ABE) program before beginning their graduate program.

Further information about the MSAIA may be obtained by contacting the Graduate Programs Office of the College of Business, Lehigh University, 621 Taylor Street, Bethlehem PA 18015; phone: (610) 758-4450 email: business@lehigh.edu.; or Professor David Hinrichs, Director, M.S. in Accounting Program, phone: (610) 758-4674 email: djh404@lehigh.edu.

https://business.lehigh.edu/ms-accounting-and-information-analysis/
in 12 months by taking extra courses in the fall and spring semesters and in the summer session.

Core Required Courses 15

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 402</td>
<td>Managerial Economics</td>
</tr>
<tr>
<td>ECO 403</td>
<td>Econometric Software</td>
</tr>
<tr>
<td>ECO 412</td>
<td>Mathematical Economics</td>
</tr>
<tr>
<td>ECO 415</td>
<td>Econometrics I</td>
</tr>
<tr>
<td>ECO 417</td>
<td>Advanced Macroeconomic Analysis</td>
</tr>
</tbody>
</table>

Program Tracks - choose one of the two tracks below 9

A. Competition and Market Analysis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 404</td>
<td>Applied Microeconomics</td>
</tr>
<tr>
<td>ECO 447</td>
<td>Economic Analysis of Market Competition</td>
</tr>
</tbody>
</table>

Plus one of the following:

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>BIS 448</td>
<td>Predictive Analytics in Business</td>
</tr>
<tr>
<td>ECO 431</td>
<td>Quantitative Market Analysis</td>
</tr>
<tr>
<td>ECO 456</td>
<td>Industrial Organization</td>
</tr>
<tr>
<td>ECO 463</td>
<td>Topics in Game Theory</td>
</tr>
<tr>
<td>ECO 325</td>
<td>Consumer Insights through Data Analysis</td>
</tr>
<tr>
<td>ECO 336</td>
<td>Antitrust, Regulation, and the New Economy</td>
</tr>
</tbody>
</table>

B. Policy Economics

<table>
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<tr>
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</tr>
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<tbody>
<tr>
<td>ECO 404</td>
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</tr>
</tbody>
</table>

Plus two of the following:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ECO 425</td>
<td>Cost-Benefit Analysis</td>
</tr>
<tr>
<td>ECO 428</td>
<td>Electricity Economics</td>
</tr>
<tr>
<td>ECO 440</td>
<td>Labor Economics I</td>
</tr>
<tr>
<td>ECO 441</td>
<td>Labor Economics II</td>
</tr>
<tr>
<td>ECO 460</td>
<td>Time Series Analysis</td>
</tr>
<tr>
<td>ECO 303</td>
<td>Economic Development</td>
</tr>
<tr>
<td>ECO 311</td>
<td>Environmental Economics</td>
</tr>
<tr>
<td>ECO 322</td>
<td>Competitor and Market Analysis</td>
</tr>
<tr>
<td>ECO 328</td>
<td>Electricity Economics</td>
</tr>
<tr>
<td>ECO 339</td>
<td>International Trade</td>
</tr>
<tr>
<td>ECO 340</td>
<td>International Finance</td>
</tr>
<tr>
<td>ECO 345</td>
<td>Political Economy of Iraq</td>
</tr>
<tr>
<td>ECO 353</td>
<td>Public Economics</td>
</tr>
<tr>
<td>ECO 365</td>
<td>Business, Government, and Macroeconomic Policy</td>
</tr>
<tr>
<td>ECO 368</td>
<td>Health Economics</td>
</tr>
<tr>
<td>ECO 336</td>
<td>Antitrust, Regulation, and the New Economy</td>
</tr>
</tbody>
</table>

Elective Courses 6

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>ACCT 442</td>
<td>Financial Reporting and Analysis</td>
</tr>
<tr>
<td>ACCT 444</td>
<td>Accounting for Decision Making</td>
</tr>
<tr>
<td>BIS 423</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>BIS 456</td>
<td>Business Analytics for Decision Making</td>
</tr>
<tr>
<td>ECO 427</td>
<td>Statistical Analysis for Management</td>
</tr>
<tr>
<td>ECO 448</td>
<td>Business Economics</td>
</tr>
<tr>
<td>FIN 418</td>
<td>Principles of Corporate Finance and Investments</td>
</tr>
<tr>
<td>LAW 417</td>
<td>Regulatory Environment of Business</td>
</tr>
<tr>
<td>MGT 416</td>
<td>Managing Talent</td>
</tr>
<tr>
<td>MGT 462</td>
<td>Experiential Learning Capstone</td>
</tr>
<tr>
<td>MKT 415</td>
<td>Marketing Foundations</td>
</tr>
<tr>
<td>MKT 425</td>
<td>Contemporary Topics in Marketing</td>
</tr>
<tr>
<td>SCM 423</td>
<td>Supply Chain Operations Management</td>
</tr>
</tbody>
</table>

Total Credits 32

Program Admission Requirements

Admission to the M2 program will be based on college transcripts with undergraduate degree conferred, 2 recommendation letters, resume, and candidate essay. Standardized scores on the GMAT or GRE exam are optional. International applicants must show English proficiency as measured by the TOEFL, IELTS, or Duolingo.

GMAT or GRE Scores

The GMAT or GRE test score submission is Optional* for MS in Management (M2) applicants who have earned a non-business undergraduate degree from an accredited college or university.

Applicants who choose not to submit a GMAT or GRE test score should provide us with evidence in their application that they can be successful in the MS in Management program without a GMAT or GRE score. Applications will be reviewed by the admissions committee, but this is no guarantee of acceptance.

Please see a list of examples below that would be considered as evidence of the ability to be successful in the program without a GMAT or GRE exam:

- An overall undergraduate GPA of 3.3 or better
- A grade of B or better in two (2) or more quantitative courses

Applicants choosing not to submit test scores will receive one of three responses from the admissions committee upon completion of all other application materials:

1. Acceptance into the M2 program
2. Request from the Admissions Committee for a GMAT or GRE test score submission
3. Denied Admission into the M2 Program
Program Requirements

The Ph.D. program requires a minimum of 48 credit hours of study (including dissertation) beyond a master's degree or 72 credit hours of study beyond a bachelor's degree. Each student is required to choose one primary field and one secondary field of specialization. Students must take and complete with satisfactory grades core courses in microeconomic theory, macroeconomic theory, econometrics, and mathematical economics. Students are also required to pass written qualifying examinations in microeconomic theory and econometrics as well as a field exam in their primary field.

In order to advance to Ph.D. candidacy, a student must complete, under the guidance of a faculty, an original third-year research paper no later than the end of their third year in the program. Under the guidance of a dissertation committee, which typically consists of a chairperson (the main advisor) and three committee members one of which being an external member sought outside the Economics Department, a Ph.D. candidate undertakes research culminating in a doctoral dissertation. The Ph.D. is awarded upon the successful completion of the dissertation and its oral defense.

Further information about the Ph.D. in Business and Economics Program may be obtained by contacting the Graduate Programs Office of the College of Business, Lehigh University, College of Business, 621 Taylor Street, Bethlehem PA 18015.

Email: business@lehigh.edu

https://business.lehigh.edu/phd-business-and-economics/
Business Information Systems Courses

BIS 423 Management Information Systems 2 Credits
This course examines the role of information systems (IS) and information technology (IT) in the organization. The focus of the course is the organizational uses of IS and IT to compete effectively. Both technical and managerial aspects of information systems are explored. The course includes technical infrastructure, management decision-making, trends and innovations in IS, and business process issues critical to the understanding of operational and strategic information systems.

BIS 446 Python Applications for Business 3 Credits
This class is designed to introduce students to the processes involved in acquiring, cleaning, arranging, analyzing, and visualizing business data using the Python programming language. It will be fast-paced, but assumes only a basic familiarity with coding, and requires no specific expertise in Python to start. We will start with the basics of Python, leveraging the Git version control system, the Spyder IDE, and the Anaconda package manager to get students up and running meaningful code as quickly as possible.

BIS 448 Predictive Analytics in Business 3 Credits
The course covers theories and practices in predictive analytics in business. Students will have hands-on experience on analyzing business data for business intelligence and improved business decision making. Includes: key theories, concepts, and models of predictive analytics; and data mining tools to formulate and solve business problems. The course uses data analytics software and real data. Topics include prediction, forecasting, classification, clustering, data-visualization and data reduction techniques. Not available to students who have credit for BIS 348 or BIS 456.

BIS 452 Business Analytics and Modelling 3 Credits
This course covers advanced analytic methods for understanding and solving business problems. The emphasis is on understanding and applying a wide range of modern techniques to specific decision-making situations. Using the programming language R, the course covers advanced topics such as machine learning, text mining, and social network analysis. Upon completion, students will have valuable practical analytical skills to handle large datasets and make business decisions. Credits will not be given for both BIS 352 and BIS 452.

Prerequisites: BUEC or ECO 045

BIS 456 Business Analytics for Decision Making 3 Credits
Provides students with a theoretical and practical understanding of core data analytics concepts and techniques, and develops hands-on experience in applying these techniques to practical real-world business problems using R software. As an applied course, the emphasis will be less on the inner working of each method and more on when and how to use each technique and how to interpret the results. Not available to students who have credit for BIS 348, 448, 352 or 452.

Prerequisites: MBA 440 or ECO 045 or ECO 427 or BUEC

BIS 458 Data Management for Managers 3 Credits
Covers fundamentals of database management, including database development, processing, logical and physical design, access, implementation and administration, and design and deployment of cloud services solutions. Students will gain extensive experience in developing data models, creating relational databases, formulating and executing complex queries, and understanding cloud services solutions in cloud resource costing, deployment management, network design, data storage, security, scalability and elasticity, cloud migration and hybrid architecture. Hands-on experiences such as such as Oracle Database and Amazon Web Services are included.

Economics Courses

ECO 402 Managerial Economics 3 Credits

Prerequisites: MATH 021 and (MATH 022 or MATH 096) and ECO 401
ECO 428 (ECE 428) Electricity Economics 3 Credits
Course focuses on the intersection between economics & electricity systems, and market structures available in the electric energy industry. Background provided on basic economic theory applied to power systems to understand operations objectives, pricing & incentives, as well as non-perfect competition situations that arise in the network. Different dispatch optimization problems used in electricity market restructuring, approaches to solving these, and the existence of non-convex markets will be discussed. Credit will not be given for both ECO/ECE328 and ECO/ECE428.

ECO 430 Public Finance 3 Credits
The economics of public spending and taxation; principles of government debt management; theories of budgeting and cost-benefit analysis and public choice.

ECO 431 Quantitative Market Analysis 3 Credits
The course covers the application of empirical approaches to theoretical frameworks in the analysis of market structure, firm strategies, and consumer behavior. Students learn econometric methods to identify causal relationships, and the course emphasizes the role of theoretical models in developing hypotheses and interpreting data. The course covers methods of field experiments and causal inference using non-experimental data. Topics include pricing and market conduct, demand analysis, marketing, and online marketplaces. Students cannot receive credit for both ECO 366 and ECO 431.

ECO 440 Labor Economics I 3 Credits
The economics of labor markets and various labor-market institutions with emphasis on current theoretical and empirical research. Topics include labor supply and demand, human capital, the structure of labor markets, labor market regulation, information and job search, labor mobility, unionism, and labor market discrimination. 
Prerequisites: ECO 402

ECO 441 Labor Economics II 3 Credits
An examination of empirical research in labor economics, focusing on topics such as human resource management and internal labor market outcomes, wage and income inequality, and poverty, unemployment, and other issues current in the literature.
Prerequisites: ECO 415

ECO 447 Economic Analysis of Market Competition 3 Credits
Mathematical models based on game theory and industrial organization. Cases are used to analyze the strategic interaction of firms and governments as competitors and partners.
Prerequisites: ECO 402

ECO 448 Business Economics 3 Credits
Applications of economic analysis to business decision-making; technology in economic systems; resource allocation and pricing strategies in various market structures; decisions under risk and uncertainty; and government regulation and support of business and innovation.

ECO 452 Behavioral Economics 3 Credits
The study of human behavior in economic contexts incorporating ideas from Psychology and other disciplines. Covers both theory and applications. Topics include non-standard preferences (e.g., loss-aversion), decisions under risk, intertemporal choices, heuristics and biases, and more.

ECO 455 Health Economics I 3 Credits
Economic theory and empirical analysis of health production, the demand for health services, and health insurance. Implications for the current institutional structure of health care and health delivery systems will also be discussed. Additional topics and extensions will be selected based on developments in the literature.
Prerequisites: ECO 416

ECO 456 Industrial Organization 3 Credits
The goal of the course is to review theoretical and empirical attempts by economists to understand market structures lying between the extremes of perfect competition and monopoly. The course will focus first on describing the current U.S. industrial structure and reviewing models of imperfect competition. The course then shifts to a closer study of individual firm behavior. The final segment of the course is an overview of two significant relationships between government and industry caused by the existence of imperfect.
Prerequisites: ECO 415 and ECO 447

ECO 460 Time Series Analysis 3 Credits
Classical decomposition of time series, trend analysis, exponential smoothing, spectral analysis and Box-Jenkins autoregressive and moving average methods.

ECO 463 Topics in Game Theory 3 Credits
A mathematical analysis of how people interact in strategic situations. Topics include normal-form and extensive-form representations of games, various types of equilibrium requirements, the existence and characterization of equilibria, and mechanism design. The analysis is applied to micro-economic problems including industrial organization, inter-national trade, and finance.

ECO 464 Applied Econometrics I 3 Credits
This course focuses on the identification of causal relationships using cross-sectional and panel data. The objectives are to 1) familiarize students with identification assumptions for causal inference; and 2) enable students to select appropriate econometric tools for empirical economic problems and policy evaluation. Topics include robust inference and bootstrap; instrumental variables and generalized method of moments (GMM); quantile and nonparametric regression methods; treatment effect analysis, and models for discrete choices, panel data, and social interactions.
Prerequisites: ECO 416

ECO 465 Applied Econometrics II 3 Credits
Econometric analysis of skewed and truncated distributions, discrete outcomes, and missing or incomplete data. The first part of this course will involve the functional specification and testing of appropriate estimators in these situations, while the second part of the course will focus on conducting causal inference using nonlinear models in the presence of unobserved heterogeneity. Emphasis will be given to common applications in health and labor economics.
Prerequisites: ECO 416

ECO 466 Health Economics II 3 Credits
Selected topics in the literature on health economics with an emphasis on the application and evaluation of econometric techniques and identification strategies. Both demand and supply side issues will be addressed. Examples of the former include the demand for health, health insurance and health care services, while examples of the latter include the regulation of supplier behavior and industrial organization issues.
Prerequisites: ECO 416

ECO 490 Master’s Thesis 1-6 Credits
Master’s Thesis.

ECO 492 Special Topics in Economics 1-3 Credits
Extended study of an approved topic not covered in scheduled courses.
Repeat Status: Course may be repeated.

ECO 493 Doctoral Pre-Dissertation Research Project - Independent Study 1-9 Credits
Independent study on a topic that is being pursued to fulfill the third year paper requirement, and has been approved by the student’s interim advisor.

ECO 499 Dissertation 1-15 Credits
Repeat Status: Course may be repeated.
Grad Business Entrepreneurship Courses

GBEN 401 Business Plan I 2 Credits
This course focuses on the need to validate that a market exists for a new product or service. As a project-based course, students work independently on a venture of their own choosing. They are challenged to make use of primary market research methods to identify demand determinants and test for the presence of first-time buyers. Students search available databases and gather information to estimate market size and growth potential.

GBEN 402 Business Plan II 2 Credits
This course focuses on the need to create a business plan to launch a new enterprise. As a project-based course, students work independently on a venture of their own choosing. Emphasis is given to all the elements needed to commercialize a new enterprise from a marketing, sales, operations, technology, facilities, and financial perspective. The presentation format of the business plan receives close attention as a tool to attract potential investors.

Prerequisites: GBEN 401!

GBEN 403 Anatomy of Entrepreneurship 1 Credit
This course focuses on the personality traits and characteristics of a founder. The leadership style and management of a startup are highlighted as the venture moves through various stages of development. Real-life situations are brought into the classroom and students are challenged with decision-making in a startup environment marked by enormous uncertainty and rapid change. Students learn the critical role of the founder in attracting investors and raising capital.

GBEN 404 Market Opportunity 1 Credit
This course focuses on entrepreneurial marketing and the methods employed by emerging growth companies to successfully penetrate and disrupt markets. Speakers and cases illustrate branding strategies, selling approaches, pricing alternatives, and digital marketing tactics peculiar to startups who are constrained by scarce resources and saddled with expertise in the hands of a few.

GBEN 405 Intellectual Property 1 Credit
This course focuses on IP strategy and valuation with emphasis on the technology-driven startup. Early stage companies must demonstrate proof-of-concept to their investors, a huge milestone that verifies the potential of real-world application. Speakers and cases deal with the harsh trade-offs of IP decision-making and the constant need to raise capital to accelerate technology development.

GBEN 406 Performing Due Diligence 1 Credit
This course focuses on due diligence as a creative and time-sensitive process that can open or close doors for startups. Speakers and cases illustrate what potential investors or acquirers do to validate the accuracy, integrity, and completeness of information provided before finalizing an investment decision. Students learn performing due diligence is a labor-intensive investigative process that unfolds in stages where the results also speak to the credibility of the entrepreneur.

GBEN 407 Startups & Pivots 1 Credit
This course focuses on the need to pivot, or shift direction, when market conditions and revenue shortfalls dictate major change. Speakers and cases highlight what startups do to breathe new life into a troubled venture. Students learn how founders raise capital under adverse circumstances in order to buy time to re-configure product, transition to another market and type of customer, and test a new business model.

GBEN 408 Financial Forecasting 1 Credit
This course focuses on the use of pro forma financial statements and projections to value and finance an early stage company. Cases illustrate key assumptions and various scenarios that figure into a multi-year forecast. Business models are evaluated for their profit potential during a period of expansion and growth. Students learn the art and science of valuing a startup.

GBEN 410 Financing Startups 1 Credit
This course focuses on the separate but overlapping worlds of angel investors, venture capitalists, and strategic investors. Their funding role, investment objectives, and market behaviors are analyzed in capital raises for seed through late stage companies. Cases give attention to venture capital and their term sheets. The course culminates in a simulated deal negotiation involving students.

GBEN 412 Going Public 1 Credit
This course focuses on the initial public offering [IPO] or how the venture capital-backed company moves from being privately-held to publicly-held. Major emphasis is placed on the role of the investment banker and the workings of the Securities & Exchange Commission [SEC]. Actual IPOs traded on the NYSE or NASDAQ are dissected from every angle before, during, and after a company goes public.

GBEN 413 Integrative Experience/New Venture Internship 1-4 Credits
Only students enrolled in the Entrepreneurial concentration may elect one of these hands-on, project-orientated s. Integrative Experience must meet the requirements of formal independent study and involve a new venture situation with a startup or existing company. Students employed in a New Venture Internship may also qualify for credit if the same requirements are satisfied.

GBEN 414 Ventures in Brand Licensing 1 Credit
This course focuses on the art and science of building new enterprises by utilizing licensing strategies to leverage the power and influence of brands. A wide cross-section of deal structures and negotiation strategies are explored. Key elements of a licensing contract are dissected from a market, economic, and legal perspective. The approach to learning is hands-on with speakers, interactive exercises, and real-life situations shedding light on the emergence of brand licensing as an alternative path to new venture creation.

GBEN 415 LehighSiliconValley 1-3 Credits
Immersion study-abroad-like program focused on venture capital-backed companies and the paths taken to start, build, and exit an enterprise. Offered in the hub of entrepreneurship, Silicon Valley, live cases draw on seasoned practitioners from all reaches of the venture community. Students strategically analyze and evaluate startups, lead discussion, and assess team performance in recommending go-forward strategies. Emphasis on real companies, real players, and real situations in real time create a highly charged learning environment. Winter term. Includes pre-trip sessions. Competitive admission. Program fees.

GBEN 424 Entrepreneurship & Innovation: From Idea to Opportunity 3 Credits
Thought about starting a business but wonder where to begin? focuses on the idea stage of new venture creation where discovery plants seeds of future enterprises. Student projects, case studies and speakers introduce personal, interpersonal, financial, and legal challenges startups encounter. Drawing on research on entrepreneurial decision-making, students learn to think and behave entrepreneurially. Participants “kick the tires” on their own and others’ just-emerging ideas and improve them. For those interested in starting a business sometime in their lives.

GBEN 492 Special Topics 1-3 Credits
GBEN 497 1-3 Credits
Repeat Status: Course may be repeated.
Graduate Business Courses

GBUS 401 Financial Reporting for Managers and Investors 3 Credits

GBUS 408 Advanced Business Speaking and Pragmatics 2 Credits
Designed to assist international business students become capable communicators within the U.S. and the global marketplace. Students will increase their oral communicative competence and socio-cultural communication awareness through assignments designed to help them learn successful behaviors and customs that are essential elements of oral communication in U.S. graduate business courses, job searching, networking, business presentations, and career development. Students are assessed through their successful use of advanced language functions during the application of face-to-face business settings including business-style negotiations, interviews, presentations, and panel discussions.

GBUS 409 Advanced Business Writing and Reading 2 Credits
Designed to introduce international business students to the types of rhetoric and written structures required in an American university graduate business program, as well as in most business environments; and to provide them with the skills and strategies that are necessary to produce cogent academic essays and papers, as well as business summaries and briefs for the global marketplace. Utilizing a process writing approach, students model expository, chronological order/process, compare and contrast, cause and effect, argumentative, and problem-solution styles, as well as formal and informal business written communication styles. Students are assessed through their successful use of these rhetorical models in writing, their advanced level of academic vocabulary and grammatical structures, as well as through summaries and analyses of research-level articles that include appropriate academic publication conventions.

GBUS 413 Advanced Management Accounting 3 Credits
Prerequisites: MBA 403

GBUS 414 Financial Statement Analysis and Interpretation 3 Credits
This course focuses on analysis of financial statements. It develops the skills necessary to interpret and use financial statement information effectively to assess profitability and risk and is intended for individuals likely to become intensive users of financial accounting information. Requirements include readings, case studies, presentations, and written analysis of actual financial statements.
Prerequisites: (MBA 402) or (ACCT 151 and FIN 125 or FIN 225)

GBUS 419 Financial Management 3 Credits
An intermediate level course in corporate finance. Coverage includes capital budgeting techniques including real options, decision tree analysis, risk analysis, advanced cost of capital theories, capital structure theory, dividend policy, working capital management, mergers and acquisitions, restructuring, and bankruptcies. The course emphasizes both theory and practice through lectures, cases, and financial modeling exercises. Students not possessing the relevant prerequisites must obtain waivers from the designated finance faculty representative.
Prerequisites: (MBA 402) or (ACCT 151 and FIN 125)

GBUS 420 Investments 3 Credits
Prerequisites: (MBA 402) or (ACCT 151 and FIN 125)

GBUS 421 Advanced Investments 3 Credits
Advanced topics relating to specific areas within investment finance such as valuation/security analysis; portfolio/risk management; fixed investment securities; mutual funds; hedge funds; microstructure; and trading. Consent of designated finance faculty representative required.
Repeat Status: Course may be repeated.
Prerequisites: GBUS 420

GBUS 422 Derivatives and Risk Management 3 Credits
The theory and application of a variety of derivative instruments (options, futures contracts, etc.) used in corporation finance and the financial services industry. The focus is on the risk management application vs. a rigorous development of option pricing theory and similar topics. Consent of designated finance faculty representative required.
Prerequisites: GBUS 420

GBUS 424 Advanced Topics in Financial Management 3 Credits
Advanced topics relating to specific areas of corporate finance such as: theoretical and empirical examination of recent developments in financial management, asset valuation and capital budgeting including the role of uncertainty, imprecise forecasts, risk preferences, inflation, market conditions, and the global marketplace, working capital management, leasing, mergers, and financing. The course content may vary between instructors or each time the course is offered. Consent of designated finance representative.
Repeat Status: Course may be repeated.
Prerequisites: GBUS 419

GBUS 425 Real Estate Financing and Investing 3 Credits
An upper-level course in modern real estate financing techniques from the perspectives of both the borrower and the lender. Subject matter encompasses the following areas: The principles of financing decisions; financing methods and techniques; institutional sources of funds for real estate; and real estate financing decisions. Consent of designated finance faculty representative required.
Prerequisites: (MBA 402 and GBUS 420)

GBUS 426 Financial Markets and Institutions 3 Credits
Functions and portfolios of financial intermediaries. Sectional demand and supply of funds, nature and role of interest rates, term structure and forecasting, impact of inflation and regulations on financial intermediaries and markets, and current developments in the financial system. Management of assets and liabilities within the U.S. financial institution’s legal and economic constraints. Consent of designated finance faculty representative.
Prerequisites: (GBUS 420)

GBUS 431 Quantitative Finance 3 Credits
Relationship of quantitative models to financial theory and applications. Capital budgeting, portfolio selection, security evaluation, cash management, inventory policy and credit analysis. Consent of designated finance faculty.
Prerequisites: MBA 402

GBUS 432 Demand and Supply Chain Planning 3 Credits
Students will learn how businesses work together to build relationships and integrate demand and supply planning activities across the supply chain to deliver superior value to customers. They will also learn about tools and technologies that enable integration as well as the critical drivers and the key metrics that support supply chain performance. Current readings and case studies, simulations and written assignments will be used.
GBUS 437 Federal Taxation and Business Decisions 3 Credits
Impact of federal taxation on the structure and timing of business decisions. Problem-solving methods and research techniques from a managerial perspective.
Prequisites: ACCT 307

GBUS 441 Business Ethics 3 Credits
Provides several frameworks by which to view ethics and decision-making. Links theory and practice through the study of business ethics as it relates to a variety of management issues. Course content is structured along three dimensions: ethics and the individual, managing ethics in the organization, and organizational ethics and social responsibility.

GBUS 442 Seminar in Management Consulting 3 Credits
A study of consulting practices in general and their application to small business. Processes include a field study/counseling service to a local business. Emphasis is on the identification and analysis of multidisciplinary problems and opportunities and the implementation of recommendations. Must have completion of MBA background courses (or equivalent). Consent of instructor required.

GBUS 443 Advanced Leadership Topics: Leadership Skill Building 1 Credit
Beyond intelligence and technical skills, what separates effective from less effective leaders is an understanding of the human psychology that drives business. This course offers students an opportunity to learn more about themselves, to get feedback, to practice getting out of their comfort zones. It focuses on providing students with essential leadership knowledge and abilities, including topics at the heart of relational leadership (e.g. listening, coaching, feedback giving/receiving, EI) to grow into the leader they want to become.

GBUS 447 Negotiation 3 Credits
The class examines the behavioral foundations of the negotiation process. Topics include: the negotiation process, negotiation planning, power in negotiations, communications in negotiations, tactics, concepts of win-win and win-lose, social styles, individual and group negotiation, ethical considerations, cultural differences, negotiating in sole source (customer) situations, using third parties. The concepts will be exposed through both lectures and simulations.

GBUS 448 Leadership 3 Credits
This course is an examination of leadership at the organization and group/team levels, and aims to develop and build a student's leadership skills and the ability to diagnose leadership needs in different situations. In identifying and building these leadership skills, the course will focus on the decisions leaders need to make, and the appropriate leadership decision-making processes required in various contexts and at different stages of an organization's existence. Cases and developmental exercises including in-depth decision-making exercises are utilized and cover diverse situations and cross-cultural dimensions including specific situations such as a crisis or ethically difficult decisions.

GBUS 450 Strategic Supply Management 3 Credits
A survey course designed to introduce the MBA/MSE student to the vital role played by supply management in achieving overall effectiveness for the firm in today's global economy. The course starts by examining the traditional purchasing process and then moves on to an examination of the evolution of purchasing into supply management and, finally, to the role purchasing plays in improving effectiveness of the entire value chain. consists of lectures, discussion and case analysis.

GBUS 453 Transportation and Logistics Management 3 Credits
The control of physical distribution and inventories; the flow of information, products and cash through the integrated supply chain.

GBUS 456 Applied Supply Chain Models 3 Credits
This course will present applied and analytic approaches for developing inventory and forecasting models, supplier selection, supply chain quality management, and production planning and supply chain network design.

GBUS 460 Strategic Marketing Management 3 Credits
The course studies the management of contemporary organizations from the perspective of a marketing manager. While the course content addresses the activities required to maintain a strategic fit between an organization's environment and its particular set of objectives and resources, the central focus is on designing strategic marketing actions for various types of organizations. The course pedagogy emphasizes the application of marketing and other business principles through seminars, simulations, or case discussion.
Prequisites: MBA 404

GBUS 462 Pharmaceutical Marketing 3 Credits
The course provides an introduction and overview of the various healthcare system components as they relate to the pharmaceutical industry. This course will (1) focus on product decisions of the firm, requiring an occasional shift in focus from that of corporate management to that of operating managers of new product activities or established brands; (2) recognize the importance of marketing research as input to product decisions; (3) take a managerial orientation; (4) recognize the need to tailor product policy approaches to the characteristics of the decision-maker and the firm. The course will be a mixture of lectures, discussions, case analyses, and group exercises. Graduate students only.
Prequisites: MBA 404

GBUS 464 Business-to-Business Marketing 3 Credits
This course focuses on marketing strategies and tactics in firms whose customers are other institutions, not individuals. Topics covered include organizational buying behavior, managing strategic buyer-seller relationships, sales force deployment, communication strategies, and so on. Specific attention is given to the impact of information technology and globalization in the business to business context.

GBUS 465 Creating Breakthrough Innovations 3 Credits
Most products and services either fail or do average business, but some are phenomenally successful. Such products and services that provide phenomenal financial returns and become market leaders can be called "Breakthrough Products and Services". The main objective of the course is to improve our understanding of the process of creating breakthrough products and services. It is accomplished by in-class discussions of cases, assignments, and the state-of-the-art research work in academia and industry. The course concludes with a term paper that integrates the concepts learned from class discussions, reference books, and research papers and applies them to a real product. Must have graduate student status plus two years of postgraduate work experience.

GBUS 466 Marketing Research and Analysis 3 Credits
This course focuses on procedures for collecting and analyzing relevant information for informed decision making by managers. The process of identifying research questions, developing instruments for collecting information, appropriate interpretation of information, and appropriateness of research methods are some of the topics discussed in this course. The course focuses on the process of doing marketing research as well as the techniques for analyzing information. Discussion of concepts and cases, developing data collection instruments, and doing actual marketing research projects will form the key elements of this course.
Prequisites: (ECO 401 or BUEC )

GBUS 467 Sales Management 3 Credits
This course takes an integrated approach to the study of sales management, including formulation of strategically sound programs and the implementation of selling initiatives and the evaluation and control of the organization's sales activities. Topics include the role of the sales manager in the divergent demands of multiple constituencies; the development of effective sales organizations; lead generation and quota setting; territory management; and motivation and reward systems. Learning methods include case studies where students' diagnose problems and develop viable alternatives.
GBUS 468 Future of Marketing 3 Credits
The course focuses on emerging trends that significantly influence the future of marketing. A variety of methods and contemporary materials will be used to discuss future scenarios: (1) how marketing is conceptualized and implemented; and (2) how marketing impacts and is impacted by society.

GBUS 470 Marketing Communications Strategies 3 Credits
This course focuses on how various elements of communications are integrated to achieve various organizational objectives. In addition to the traditional communication media such as advertising and point of purchase media, emphasis will also be placed on new media and strategies made possible due to the advances in technology. The course will involve discussion of concepts, case analysis and discussion, insights from practitioners, and group projects.

GBUS 471 Strategic Brand Management 3 Credits
This course approaches the study of brand management by illustrating the formulation of strategically sound brand management programs and the evaluation and control of the implementation of key brand initiatives (new products, advertising support, etc.). Focus is on theories and models to develop and manage brand equity. Specific learning modules include customer development, brand strategy development, brand extension development and annual brand planning. Specific attention is focused on case studies and team projects in building, measuring and managing brand equity.

GBUS 472 Strategies for Services Marketing 3 Credits
The course focuses on the challenges of marketing and managing services (whether in a manufacturing or service business) and discusses the development of strategies for addressing these challenges. The need for cross-functional integration to provide effective service is stressed. Illustrative topics include service quality gap analysis, relationship between superior service and profitability, service encounter analysis, customer lifetime value analysis, services guarantees, and service demand and capacity management.

GBUS 473 International Finance 3 Credits
Consideration of problems arising from the risks associated with international investing and multinational corporation finance (currency, political, etc.). Focus is on (a) investing in international market given the institutional constraints and differences between domestic markets, and (b) managerial issues relating to corporations, investors, and financial institutions. Consent of designated finance faculty representative.

Prerequisites: GBUS 419

GBUS 475 Global Marketing Strategies 3 Credits
The course is designed to provide a framework within which global marketing operation can be analyzed, understood, and undertaken. The course focuses on issues that are being faced by firms in today's global marketplace, particularly those that are related to strategy formulation and implementation. The learning experience in this course is placed on global business decision-making, through the use of case studies, projects, exercises, and lectures.

GBUS 484 Financial Engineering Professional Development 0 Credits
The program's size and selectivity lead to an intense experience enabling the student to benefit from development opportunities such as: Alumni Connections, Alumni speaker series, corporate connections gained through practicum capstone projects, standard University job tools and programs, Quant Career fairs, Quant Trading Competition, Quant Conference and Networking, internships and job opportunities.

Repeat Status: Course may be repeated.

GBUS 485 Financial Engineering Practicum Capstone 3 Credits
The MFE practicum capstone provides an engagement with real-world business problems using relevant data sets over the entire course of the semester. By working on real-world consulting projects, with real-world data, students will use techniques and data science tools learned in course works but gleaned from the project itself. A Capstone Project is the creation of an analysis, tool, product, or other objects of potential value to the financial community. Students will benefit from interaction with business executives.

GBUS 490 Thesis 0-6 Credits
GBUS 492 Special Topics 1-4 Credits
Repeat Status: Course may be repeated.

GBUS 494 Field Projects 1-4 Credits
The field projects course will provide MBA students with an opportunity to apply MBA concepts with an employer, corporate partner or other suitable organization. Students will work with a supervising professor and a corporate representative on a project designed by the student. Students must prepare a written proposal for the project including the expected outcomes and an estimate of the hours required for completion. Students will present their proposal to a faculty member of their choice for approval. The academic rigor and time required to complete the project will determine the number of credits earned.

GBUS 499 Dissertation 1-12 Credits

Graduate MBA Core Courses

MBA 401 Introduction to the Organization and its Environment 2 Credits
An MBA core course designed to provide a thorough understanding of business organizations by examining strategies middle and senior managers use to create and sustain organizational competitive advantage. The course examines the organization from an overall perspective within the context of the firm's internal and external environment. The second aspect of this course deals with the ability to communicate effectively in today's business and professional environment. Students will examine and practice the written and verbal communications strategies and skills that are essential to their success in business.

MBA 402 Managing Financial and Physical Resources 4 Credits
An MBA core course designed to integrate financial and managerial concepts into operations decisions. Disciplines of accounting, finance and economics are combined to provide substantive foundations for discussing and analyzing data. Implications of analysis are applied to facilitate decision-making in other areas such as marketing, operations (manufacturing, logistics and engineering), human resources, information technology and general management. The major learning objectives will be applied through a series of "living" cases that are centered on analyzing historical financial performance, preparing a business plan, and valuing a business.

Prerequisites: (MBA 401 and GBUS 401 or BUAC )
Can be taken Concurrently: MBA 401

MBA 403 Managing Information 4 Credits
An MBA core course dealing with concepts and methods involved in the collection, organization and dissemination of information that helps managers make operational and strategic decisions. The course also deals with attributes of information and examines enterprise-wide impacts of local decisions. Revenue, cost, time and quality-based information are accorded equal emphasis, while students are exposed to alternative evaluation methods for decisions related to different parts of the value chain. Topics include: activity-based costing; activity-based management; transaction analysis; operational and strategic decisions such as outsourcing, design partnerships, etc; investment analysis for short lifecycle investments; evaluation of uncertainty, risk and ambiguity; metrics development; compensation policies; segment evaluation methods; target costing and functional analysis; quality function deployment; total cost of ownership; and transfer pricing. In addition, the course deals with: information technology enablers which allow firms to improve value delivered to customers; and evaluation and management of emerging forms of Cooperation, such as joint ventures and project based strategic alliances.

Prerequisites: (ECO 401 or BUEC ) and (GBUS 401 or BUAC and MBA 401)
Can be taken Concurrently: MBA 401
MBA 404 Managing Products and Services 4 Credits
An MBA core course focusing on the management of products and services within a firm’s value chain. The course addresses exceeding customer expectations, establishing total quality as the core foundation, developing a strong customer focus, creating value through supply chain management, developing new products for competitive advantage, matching aggregate supply with customer demand, and designing market channels and influencing customers.
Prerequisites: MBA 401
Can be taken Concurrently: MBA 401

MBA 405 Managing People 4 Credits
An MBA core course that examines how effective organizations are created, maintained, and improved. The course will focus on how good people are attracted to an organization and how to make them productive. Topics include: organizational design, job design, staffing, training and development, performance, teams, influence, diversity, change, ethical decision-making and current people issues facing today’s organizations.
Prerequisites: MBA 401
Can be taken Concurrently: MBA 401

MBA 406 Integrative Experience 3 Credits
An MBA course where students apply the body of knowledge acquired in MBA 401 through 405 through a simulation, case presentations and the cross core project. This course places an emphasis on strategic management and takes the point of view of the general manager to view the organization from an overall perspective in the context of the firm’s internal and external environment. In doing so, students examine historical perspectives, contemporary theories, and practical applications all in the spirit of helping them develop a broad understanding of strategic management issues and solutions. By combining high-level class discussions, case analyses, a computer simulation competition and the cross core project this course exposes students to rigorous theoretical analysis while providing hands-on, simulated real world business experiences.
Prerequisites: (MBA 401 and MBA 402 and MBA 403 and MBA 404 and MBA 405)
Can be taken Concurrently: MBA 403

MBA 440 Quantitative Methods 3 Credits
The course develops an understanding of the foundational methods and skills of quantitative analysis to a variety of business and economic situations. Areas of focus include probability concepts, data description and visualization, estimation, hypothesis testing, correlation, and regression. Software packages are used for statistical computing and data analysis.

MBA 441 Professional Development 1 Credit
The course focus is on career-enhancing skills that aid professional development. Assessment tools are used to understand preferred communication styles, motivators and competencies, and facilitation of effective collaboration through high-performance team building. Networking, interviewing, presentation, and communication skills are also covered.
Repeat Status: Course may be repeated.

MBA 442 Societal Shifts I 2 Credits
This course will introduce eight societal shifts and the societal divides that each may lead to. The course explores the linkage between the Societal Shifts and the UN Sustainable Development Goals (SDGs), and focuses on three Societal Shifts in particular, Climate Change, Changing Demographics, and Rapid Urbanization, leading to a focus on Sustainable Cities (SDG 11) and Climate Action (SDG 13), and how society needs to think about sustainable growth in the coming decades.

MBA 443 Societal Shifts II 4 Credits
This course will take an in-depth look at eight societal shifts that were introduced in MBA 442. The societal shifts will be examined in pairs and then integrated to form scenarios for society in the coming decades. The focus is on the impacts of these societal shifts at the industry and individual company level.
Prerequisites: MBA 442

MBA 451 Accounting 1-MBA 1.5 Credit
This course trains students in corporate decision making using financial information that is prepared under mandated accounting principles for external financial statement users. The course also covers accounting practices which provide information for internal users. It studies the use and interpretation of financial statements with a focus on the effect of economic transactions on financial statements and key ratios. Topics include: introduction to financial accounting concepts and principles, the accounting cycle, cost accounting information processing and impact on decision making.

MBA 452 Economics and Markets 1-MBA 1.5 Credit
Fundamental principles and tools of microeconomics with a focus on managerial decision-making. Topics include consumer behavior, input selection, cost analysis, production and pricing strategies in various market structures, decision making under uncertainty, international trade, information asymmetry and organizational design, and game theory as it applies to business strategy.

MBA 453 Finance 1-MBA 1.5 Credit
This course explores the application of fundamental finance concepts in modern business. Topics covered include Risk and return, Capital budgeting techniques and analysis, financial statement analysis and forecasting, valuation basics, corporate cost of capital, and other corporate finance issues such as capital structure, dividend policy, and working capital policy.

MBA 454 Management - OB/HR 1-MBA 1.5 Credit
This course focuses on understanding human behavior at work and how it is influenced by individual differences, group dynamics, and by the organizational context in which people are employed. Key organizational behavior theories will be applied to fundamental human resource management issues with an emphasis on aligning an organization’s talent with its strategy to maximize performance.
Topics will include: staffing and selection, training and development, motivation, performance management, leadership, and optimizing effectiveness by understanding behavioral factors of individuals and groups.

MBA 455 Marketing 1-MBA 1.5 Credit
This course provides a contemporary perspective to introduce the student to the fundamentals of strategic marketing. The course explores the functional marketing operations of organizations and tracks the marketing manager’s decision processes including segmentation and target market development, product/brand positioning and the development of the value proposition, and the integration of the marketing mix elements into a cohesive strategy. Specific learning modules are concerned with the development, evaluation, and implementation of strategic marketing plans.

MBA 456 Strategy 1-MBA 1.5 Credit
Within the context of a multi-stakeholder approach to organizations, strategic management covers overall organizational issues in intent, analysis, strategy formulation, execution, and control within a global environment. The objectives of this course are to provide the student with a better understanding of business organizations and to clarify the way senior managers create and sustain organizational competitive advantage.

MBA 457 Consulting Practicum I 2 Credits
The course enables students to analyze and dissect strategies that speak to market leadership and growth trajectories. The format is intensely interactive. High profile consulting firms shed light on wide-ranging topics from business transformation to board governance. The public company is seen from an analyst or investor perspective. Emphasis is given to the role of CEO as chief strategist and organization builder. The classroom experience comes alive through fast-moving cases and wide-angle discussions with a host of speakers.
MBA 461 Financial Claimants 1-MBA 1.5 Credit
This course will focus on various financial claimants in the modern corporation. The focus will be on the theory behind and practice related to information needs and use by stockholders, bondholders, and other intermediate financial claimants (e.g., preferred stockholders, warrant holders). Coverage will include related governance and agency theory principles as well as the impact of disclosure, fair value accounting, and regulation on financial claimants.
Prerequisites: MBA 451 and MBA 453

MBA 462 Government & Society 1-MBA 1.5 Credit
Economic and strategic analysis of the role of government and social forces in markets and business policies. Topics include environmental controls, consumer protection, antitrust and the promotion of market competition, intellectual property and inventions, and taxation.

MBA 463 Suppliers and Customers 1-MBA 1.5 Credit
Explores how organizations identify customer needs and develop supply chain flows – upstream (backward through the supply levels) and downstream (forward through the channel systems) – to deliver goods and services that exceed customer expectations and creates societal value. Covers demand/customer management, supply/capacity planning, raw material/component sourcing, inventory planning, distribution/merchandising, and quality management.

MBA 464 Employees 1-MBA 1.5 Credit
This course will focus on the evolving social contract between employers and employees in the modern corporation, their causes and consequences. Topics will build on the basics from the Management OB/HR course from the first session. In particular, coverage will include the following issues: procedural justice and fairness; privacy and freedom of speech; work-life balance, diversity, inclusion, and the bottom line; job security and alternative work arrangements, compensation; employee ownership; performance management and career development.

MBA 465 Consulting Practicum II 4 Credits
Students move from the classroom setting of Consulting Practicum I to the practice or field environment in serving an actual client in Consulting Practicum II. Emphasis is placed on applying analytic, listening, and communication skills through the various stages of a client engagement that include preparation, initial meeting, proposal development, work-in-process, deliverable, and formal presentation at semester’s end. The course challenges students to assume the role of management consultant in creating value through a strategic-level assignment that is time-sensitive.
Prerequisites: MBA 457

MBA 471 Accounting for Executives 3 Credits
This course incorporates both financial reporting and managerial accounting topics emphasizing the analysis and evaluation of accounting data as part of the managerial processes of planning, decision-making, and control. Topics include: financial accounting concepts and principles, cost accounting information processing and its impact on decision making and strategy development and the application of accounting information in the firm’s management of ESG (environmental, social, and corporate governance) issues.

MBA 472 Essentials of Economics for Executives 3 Credits
Applications of concepts and tools of economics to broader topics such as markets and government; open-economy macroeconomics; international trade and finance; and growth, inequality, and poverty. Real data will be used to demonstrate how current issues can be explained by economic analysis.

MBA 473 Financial Management for Executives 3 Credits
This course provides the background to optimally manage the financial well-being of corporations. Topics include: time value of money, capital-budgeting analysis, net present value, internal rate of return (IRR) and its pitfalls, real options, making cash-flow forecasts from accounting data, financial statement ratio analysis, tradeoff between risk and return, portfolio theory, and Capital Asset Pricing Model (CAPM), estimating a project’s or firm’s cost of capital, corporate claimants and capital structure theory, dividend policy, and elements of corporate restructuring.

MBA 474 Marketing Essentials for Executives 3 Credits
The course equips professionals with emerging and time-tested marketing management principles and techniques for the changing world shaped by technological advances, social media, and unprecedented amounts of data. From decisions on targeting to developing and communicating brands’ value propositions, professionals will examine the ways in which marketing creates a lasting strategic impact. Participants will engage in a dynamic learning environment that uses the latest case studies, readings, simulations, and other learning modules to apply marketing knowledge for solving complex problems.

MBA 475 Operations and Supply Chain Management for Executives 3 Credits
The course is designed to explore how organizations develop supply chain flows from upstream supply management, to internal processes, and to distribution channels, in order to deliver goods and services that exceed customer expectations and create societal value. New business models and forms of operations enabled by technological innovations will be explored. Topics covered include operations strategy, demand/customer management, supply/capacity planning, raw material/component sourcing, inventory planning, fulfillment and distribution, sustainability, and industry 4.0.

MBA 476 Talent Management for Executives 3 Credits
This course highlights key principles of human behavior at work to address talent management issues in organizations and delves into how those principles can be ethically applied in a data analytics age, not just to attract and select the right employees for a given organization, but also to motivate, lead, empower, and develop others. Students will acquire skills and knowledge that will enhance your ability to analyze and resolve individual performance issues and organizational talent challenges with a global perspective.

MBA 481 Mastering Strategy 3 Credits
This course emphasizes strategic management from a general manager standpoint. Students apply essential business knowledge through simulation, case presentations, and the cross core project. We examine historical perspectives, contemporary theories, and practical applications to develop students’ broad understanding of strategic management issues and solutions. By combining high-level class discussions, case analyses, a computer simulation competition, and the cross core project, this course exposes students to rigorous theoretical analysis while providing hands-on, simulated real-world business experiences.
Prerequisites: MBA 471 and MBA 472 and MBA 473 and MBA 474 and MBA 475 and MBA 476

MBA 482 Executive Leadership 3 Credits
This course examines leadership at the organization and team levels. It aims to develop leadership skills and the ability to diagnose leadership needs in different situations. The course focuses on the decisions leaders need to make, and the appropriate leadership decision-making processes required in various contexts and at different stages of an organization’s existence. Cases and developmental exercises including in-depth decision-making exercises are utilized and cover diverse situations and cross-cultural dimensions including crisis and change management or ethically difficult decisions.
Prerequisites: MBA 471 and MBA 472 and MBA 473 and MBA 474 and MBA 475 and MBA 476
MBA 483 Digital Strategies for Organization Transformation 3 Credits
The course is designed to develop an understanding of how new business strategies can be developed and existing business strategies be improved through the introduction of technologies and digital systems. The course will highlight opportunities created by new digital technologies, artificial intelligence, and big data, identify organizational challenges and barriers to digital transformation, and present frameworks and roadmaps to developing and implementing digital transformation strategies.
Prerequisites: MBA 471 and MBA 472 and MBA 473 and MBA 474 and MBA 475 and MBA 476

MBA 484 Societal Challenges: Implications for Business 3 Credits
This course examines societal shifts (e.g., artificial intelligence, blockchain, changing demographics, and climate change) and how society needs to think about sustainable growth in the coming decades. The societal shifts will be examined in pairs and then integrated to form scenarios for society in the coming decades. The focus is on the impacts of these societal shifts at the industry and individual company level.
Prerequisites: MBA 471 and MBA 472 and MBA 473 and MBA 474 and MBA 475 and MBA 476

Law Courses
LAW 417 Regulatory Environment of Business 2 Credits
This course is designed to provide students with a basic understanding of the various legal, regulatory, and market constraints in which business operates. Students are introduced to the interplay between legislation, regulations, and court decisions in establishing the regulatory environment in which a business operates as well as the allocation of power among federal and state authorities. Conflict of law issues will also be explored for businesses that operate internationally. Contract law, forms of business, and ethics are covered in depth.

Management Courses
MGT 416 Managing Talent 3 Credits
The course is fundamentally about understanding and improving the behavior and performance of individuals in the workplace. As such, we will draw upon key theories in organizational behavior to address human resource issues arising from the employment relationship. Topics will address key areas in the talent pipeline from sourcing and selection, training and development, motivation and performance management, to talent management metrics and analytics.

MGT 461 Strategic Management 1 Credit
Strategic Management covers overall organizational issues in determination, analysis, execution, and control within a global environment. This capstone course integrates theories and concepts from production, marketing, finance, and accounting and provides an opportunity to simulate the function of top level management as it relates to the total business environment through a team-based business simulation. Through readings, written assignments, presentations, in-depth group discussions, and a team-based simulation competition, students will broaden their understanding and practice the art of strategic decision making.

MGT 462 Experiential Learning Capstone 3 Credits
The Experiential Learning Capstone in the M2 curriculum immerses students in the study of how historical, iconic companies, under the guise of strategic management principles, created disruptive/game-changing industry innovation. Built on the foundational courses in the M2 curriculum, the capstone integrates classroom lectures with a combination of company visits and externship projects. Students apply their foundational learning in the study of how birth was given to a select set of companies.
MACC 416 Intermediate Accounting II 3 Credits
The sequel to MACC 415, this course continues with intensive study of recognition, measurement, valuation and disclosure issues relating to such topics as investments, liabilities, leases, pensions, income-taxes, share-based payments, revenue issues, earnings per share, and complexities related to the statement of changes in financial position. Analysis and interpretation of financial statements and problem-solving skills are integral parts of the course. Credit will not be given for both MACC 416 and ACCT 316.
Prerequisites: MACC 415

MACC 417 Advanced Financial Accounting 3 Credits
A study of specialized topics in financial accounting, including partnership accounting, business combinations and consolidated financial statements, segment and interim reporting, foreign currency transactions and translation, and accounting and reporting for governmental and other nonprofit organizations. Involves considerable problem-solving and critical evaluation of controversial theoretical issues. Credit will not be given for both MACC 417 and ACCT 317.
Prerequisites: MACC 416

MACC 419 Auditing 3 Credits
An introduction to auditing theory, objectives, and practices related largely to the responsibilities of independent professional accountants. The auditing environment, generally accepted auditing standards, internal control theory, and reporting alternatives are considered. Exposure to operational auditing is provided. Credit will not be given for both MACC 419 and ACCT 320.
Prerequisites: MACC 415 and MACC 411

MACC 420 Fraud Examination and Forensic Accounting 3 Credits
This course focuses on developing student understanding of forensic accounting and fraud investigation for introduction to the forensic accounting profession. Course provides enhanced knowledge of occupational fraud, with emphasis on financial statement fraud. Topics include the nature/theories of fraud, fraud prevention/ detection techniques and the legal and auditing framework for fraud investigation. Course integrates data analytic techniques in fraud examination and detection, analysis of SEC cases involving fraud allegations and incorporates materials provided by the Association of Certified Fraud Examiners (ACFE).
Prerequisites: ACCT 320

MACC 423 Managerial Accounting 3 Credits
An in-depth study of concepts and methods involved in the collection, organization, dissemination and interpretation of information that facilitate operational and strategic decisions. Topics include: product costing; relevant costs for outsourcing and other operational decisions; metrics development; budgeting, performance evaluation; target costing; and transfer pricing. Credit will not be given for both MACC 423 and ACCT 324.

MACC 424 Governance, Risk and Control 3 Credits
This course focuses on developing in students an understanding of corporate governance, risk oversight and internal control monitoring from an accounting profession perspective. Topics include: agency theory, fundamentals of corporate governance, risk and internal control, functions of the board of directors and the audit committee, independent auditor and impediments to audit quality, internal auditor’s role, and SEC regulations and laws impacting governance, risk and control. Class discussions, interactive group exercises, role plays, field projects, and real-life cases are used.
Prerequisites: ACCT 320 or BU A2

MACC 427 Accounting Research and Regulation 3 Credits
Explores the mechanics of performing professional accounting research through analysis of the authoritative accounting literature applied to emerging accounting issues. While emphasizing U.S. GAAP and the Accounting Standards Codification, students will also work with SEC reporting requirements, PCAOB and AICPA auditing standards, and International Financial Reporting Standards. Students will develop skills to conduct research, determine the appropriate accounting for new and complex business transactions, and document the rationale for the accounting method chosen.
Prerequisites: ACCT 316 or MACC 416

MACC 430 Data Analytics for Accountants 3 Credits
This course uses publicly available financial statement information to programmatically analyze company activities. Obtaining, cleaning, exploring, analyzing with statistical and machine learning methods, and presenting accounting data are explored in a project based format. Non-financial related information analyses are linked to audit and risk assessments. Projects and papers involve actual entities and associated financial information. Credit will not be given for both MACC 430, Data Analytics for Accountants and ACCT 330, Accounting Data and Analytics.
Prerequisites: ECO 045

MACC 490 Business Skills for Accounting Professionals 3 Credits
Enhances key skills necessary to function effectively in a professional accounting environment. Topics include oral and written communication, exercising professional judgment, protecting and upholding professional integrity, developing and maintaining professional relationships, analyzing data to inform business decisions. Weekly participation in the Segal Accounting Distinguished Speaker Series is an integral part of this course.

MACC 491 Internship in Accounting 3 Credits
Supervised internship experience in auditing, tax consulting, corporate accounting of at least eight weeks duration.
Prerequisites: MACC 419

PMGT 409 Project Management Fundamentals 3 Credits
Introduction to project management — survey of the knowledge areas and approaches to managing projects. Looks at the relationship of projects to organizational strategy and culture, how to initiate a project, principles of planning and project execution and control, managing stakeholders, and communicating effectively. A review of the competencies required to address the complexities and challenges of projects. Hands-on approach to developing project management work artifacts and simulated project management game are used.

PMGT 412 Project Requirements and Scope Management 1 Credit
Focuses on understanding the principles and nuances of managing project and product scope: the boundaries of inclusion and exclusion of the product — its features and functions, and of the project — the work involved to create the project’s product. Addresses the methods for eliciting and managing product and project requirements, defining the project scope, creating a scope baseline, and managing changes to control scope creep.
Prerequisites: PMGT 409
Can be taken Concurrently: PMGT 409

PMGT 410 Project Requirements and Scope Management 1 Credit
This course explores the methods and challenges of developing project estimates, schedules, and budgets. Expectations about project timelines and costs cause a great deal of friction and frustration in projects. In this course students will learn how to build a schedule using the critical path method, methods for resource loading, developing contingency reserves, and time and cost estimates. They will also learn how to present schedule information to manage expectations and deal with slips when they occur.
Prerequisites: PMGT 409 and PMGT 410
Can be taken Concurrently: PMGT 409, PMGT 410

PMGT 411 Project Scheduling, Estimating & Budgeting 1 Credit
This course deals with developing a schedule in MS Project in a hands-on class. Students will learn to build a fully resource loaded, networked, and baselined schedule in MS Project, and how to manage from that schedule. Students will also explore the principles of critical chain scheduling, dealing with risks in schedules, and using the schedule to forecast outcomes and communicate effectively with stakeholders about time expectations.
Prerequisites: PMGT 409 and PMGT 410 and PMGT 411
PMGT 413 Project Risk Management 1 Credit
As projects always involve a new and unique endeavor to the performing organization, uncertainty is a part of every project. Effective project management prepares for the risks—both jeopardies and opportunities—presented by these uncertainties. In this class we will explore both the classic and some more advanced methods for dealing with project risks.
Prerequisites: PMGT 409 and PMGT 410
Can be taken Concurrently: PMGT 409, PMGT 410

PMGT 414 Managing Project Quality 1 Credit
Students will explore the key concepts of quality management and how they apply in projects. This class discusses the use of the quality management tools and methods, practices for holding quality reviews, and for developing project quality management plans.
Prerequisites: PMGT 409 and PMGT 410
Can be taken Concurrently: PMGT 409, PMGT 410

PMGT 415 Project Procurement & Negotiation 1 Credit
This class focuses on the tools and practices used in managing procurement on projects, and best practices for negotiation and supplier management. It explores the role of the contract, types of contracts, developing the statement of work, RFP, screening & selection criteria, and the procurement management plan. It also looks at how to manage contractors throughout the project.
Prerequisites: PMGT 409 and PMGT 410
Can be taken Concurrently: PMGT 409, PMGT 410

PMGT 416 Decision Making and Ethics on Projects 1 Credit
This class looks at the factors and processes for making effective and ethical decisions on projects. The unknowns, complexities, time and cost pressures, and cross-functional stakeholders make good decision-making imperative for both long-term and short-term success. Students will use a variety of tools and techniques for team decision-making. Class includes a role-play game based on the Challenger accident to explore issues.
Prerequisites: PMGT 409
Can be taken Concurrently: PMGT 409

PMGT 417 Project Leadership 1 Credit
Good management skills alone will not create project success. Leadership, which is much more elusive, is equally if not more important. This class will explore models of leadership and how they apply to projects, styles of leadership, motivation, influence, politics, and dealing with difficult stakeholders.
Prerequisites: PMGT 409
Can be taken Concurrently: PMGT 409

PMGT 418 Facilitation and Teamwork for Projects 1 Credit
This class focuses on the principles and practices of teamwork, an essential element for projects. Students will examine the effectiveness of different types of team structures and maturity levels for teams and organizations. They will learn methods for dealing with conflict, facilitating groups, and the different types of meetings used in projects. This class will use case studies as well as hands-on methods.
Prerequisites: PMGT 409

PMGT 419 Adaptive and Agile Project Management 1 Credit
In this class we will explore the new methods used for more extreme projects—those with more complexity, market acceptance, time pressure, and advanced technology. Students will examine the factors affecting complex projects with cross-functional and dispersed teams as well as principles for Agile project approaches. This class will use case studies as well as hands-on methods.
Prerequisites: PMGT 409 and PMGT 410

PMGT 420 Managing Projects for Innovation 1 Credit
Traditional project management tries to instill discipline in a seemingly chaotic process, but for innovation to thrive we must couple discipline with creativity. In this class students will explore the paradoxes innovations create, and look at ways to remove blocks and spark imagination while producing value for the organization. Case studies and hands-on techniques will be utilized in this course.
Prerequisites: PMGT 409 and PMGT 410

PMGT 421 Project Management Capstone 1-3 Credits
This class is conducted as an independent study and involves applying the principles and practices of the previous project management classes to a real-life project or approved case study. You will develop a set of project documents and provide a critical analysis of the project to demonstrate your mastery of the project management skills prescribed for a predictive (plan-based) project.
Prerequisites: PMGT 409 and PMGT 410 and PMGT 411 and PMGT 413 and PMGT 416

Supply Chain Management Courses
SCM 423 Supply Chain Operations Management 2 Credits
This course provides an essential understanding of managing global supply chains and operations within the context of an integrated value chain. Topics addressed include the fundamentals of supply chain management; supply chain risk management; quality management; demand and supply chain planning, including forecasting, capacity planning, aggregate planning, and scheduling; the components of a lean supply chain; inventory and working capital management; distribution and transportation management; and performance measurement. Special emphasis is given to managing supply chains from a financial perspective.