

College of Business and Innovation

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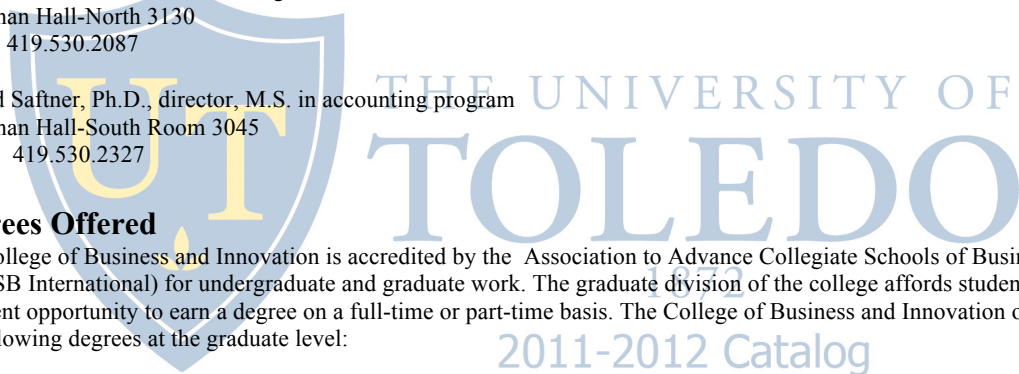
Degrees Offered

The College of Business and Innovation is accredited by the Association to Advance Collegiate Schools of Business (AACSB International) for undergraduate and graduate work. The graduate division of the college affords students an excellent opportunity to earn a degree on a full-time or part-time basis. The College of Business and Innovation offers the following degrees at the graduate level:

- Master of business administration (M.B.A.)
- A dual juris doctor/master of business administration (J.D./ M.B.A.)
- A dual doctor of medicine / master of business administration (M.D./MBA)
- A dual bachelor of science in engineering/master of business administration (B.S./M.B.A)
- Master of science in accounting (M.S.A.)
- Doctor of philosophy in manufacturing and technology management (Ph.D.)

Specializations within the Master of Business Administration Program

- Administration
- Entrepreneurship & Technology Commercialization
- Executive Management
- Finance
- Human Resource Management
- Information Systems
- International Business
- Leadership
- Marketing
- Operations Management



Admissions Policies

General Requirements

Refer to the College of Graduate Studies admissions section of this catalog for University of Toledo College of Graduate Studies admissions requirements and classification of graduate students.

Admission to Master of Business Administration (M.B.A.) Program

Admission to the M.B.A. program is available to those students who have completed an undergraduate degree and can demonstrate high promise of success in a graduate business degree program. The college has adopted qualitative admissions standards in which applicants are considered on the basis of their merits, with weight given to the quality of prior academic achievement, the Graduate Management Admissions Test (GMAT) scores, professional experience indicating increased levels of responsibility, and other relevant information that the candidate may share with the admissions committee.

Although the M.B.A. Admissions Committee requires a 2.7 undergraduate GPA and 450 on the GMAT for admission, GMAT scores and undergraduate GPA will not be the sole basis for admissions decisions.

The following documents are required for admission to the program:

1. Official transcripts from each post-secondary institution attended.
2. Official GMAT scores sent directly from the Graduate Management Admissions Council (GMAC) to the College of Graduate Studies. GMAT scores must be no more than five years old. For students applying to the J.D./M.B.A. dual degree program, the LSAT must have been taken within the last three years.
3. Three letters of reference from individuals who know the applicant in a professional capacity.
4. The statement of purpose as required on the application for admission.
5. In the case of students whose native language is not English, a score of at least 550 (paper based), 213 (computer based), or 80 (internet based) on the Test of English as a Foreign Language (TOEFL) or a score of 6.5 on the International English Language Testing System (IELTS) test is mandatory. The College of Graduate Studies determines whether applicants must take the TOEFL or IELTS examination.

Applications for admission are considered on a rolling basis. However, students are encouraged to submit their applications by the following dates:

Domestic students:

- Fall semester August 1
- Spring semester November 15
- Summer semester April 15

International students:

- Fall semester May 1
- Spring semester October 1
- Summer semester March 1

Final admissions decisions will be withheld until the application for admission is complete. No materials submitted to the University will be returned to the applicant.

Admission to Joint J.D./M.B.A. Program

Students applying for the J.D./M.B.A. program must have earned a bachelor's degree. A student must apply and be admitted to the College of Law and College of Business and Innovation separately to be admitted to the J.D./M.B.A. dual degree program. The LSAT will be accepted by the College of Business and Innovation in lieu of GMAT scores.

Admission to one program does not guarantee admission to the other program. Refer to the College of Law and M.B.A. sections of this catalog for specific admission standards for each program. Applications for admission to the J.D. program are accepted for fall entry only.

Admission to Joint M.D./M.B.A. Program

Students applying for the M.D./M.B.A. program must have earned a bachelor's degree. A student must apply and be admitted to the College of Medicine and Life Sciences and the College of Business and Innovation separately to be admitted to the M.D./M.B.A. dual degree program. The MCAT will be accepted by the College of Business and Innovation in lieu of GMAT scores.

Admission to one program does not guarantee admission to the other program. Refer to the College of Medicine and M.B.A. sections of this catalog for specific admission standards for each program. Applications for admission to the M.D. program are accepted for fall entry only.

Admission to Joint B.S./M.B.A. Degree Program

The College of Business and Innovation in conjunction with the College of Engineering offers a program whereby qualified students can earn simultaneously both a B.S. in engineering and an M.B.A. This program provides a unique opportunity to combine business and engineering skills to prepare graduates for global competitiveness. It supports the mission of the College of Business and Innovation to prepare corporate leaders for the future. The program should be particularly attractive to students interested in starting their own companies or those who want to develop an appreciation for how engineering and business complement each other.

This program will allow engineering students in their final two semesters of study to begin taking M.B.A. courses while completing their B.S. This arrangement should reduce the time it takes a student to receive both degrees by a year. The business undergraduate prerequisites can be satisfied as part of the undergraduate curriculum.

Students who wish to pursue the program should make this known to the associate dean for undergraduate studies in the College of Engineering by the end of their sophomore year. Interested students will take the GMAT at the end of their junior year and should apply for admission to the program to the College of Graduate Studies before the fall of their senior year. To be admitted to the program, students must have senior standing, score a minimum of 450 on the GMAT, and have at least a 3.0 cumulative GPA. Undergraduate requirements for the general business minor must also be completed. Upon admission to the program by the College of Graduate Studies, the College of Business and Innovation and the College of Engineering, students will be take graduate courses while simultaneously completing the requirements for the B.S. in engineering.

Students' special status must be tracked by the Office of Retention and Student Academic Success to assure AACSB compliance and to assure the B.S. degree is granted prior to graduating with the M.B.A.

Admission to Executive Master of Business Administration (E.M.B.A.) Program

The E.M.B.A. program is designed for executives and professionals with a minimum of three to five years of management or professional experience. The E.M.B.A. Admissions Committee seeks candidates with proven leadership potential. The following documents are required for admission to the program:

1. Official transcripts from each post-secondary institution attended.
2. Official GMAT* scores sent directly from the Graduate Management Admissions Council (GMAC) to the College of Graduate Studies. GMAT scores must be no more than five years old.
3. A current resume to allow the Admissions Committee the opportunity to assess the individual's work experience.
4. Three letters of reference from individuals who know the applicant in a professional capacity, one of which must be from the applicant's employer. Self-employed applicants may substitute the employer nomination with a third professional reference.

* The GMAT can be waived for applicants with sufficient supervisory experience.

All applicants to the EMBA program are also required to interview with the Admissions Committee. The interview will take place once the application for admission has been completed. Applications for admission are considered on a rolling basis for fall entry only. Final admissions decisions will be withheld until the application for admission is complete. No materials submitted to the University will be returned to the applicant.

Admission to Master of Science in Accounting (M.S.A.) Program

All decisions regarding admissions to the M.S.A. program are made through the office of the director of graduate programs in accounting. Admission to the M.S.A. program is available for those students who demonstrate high promise of success in a graduate program. All applicants are considered on the basis of their merit with weight given to the quality of prior academic achievement, GMAT test scores, professional experience, and other relevant information. The following documents are required for admission to the program:

1. Official transcripts from each post-secondary institution attended.
2. Official GMAT scores sent directly from the Graduate Management Admissions Council (GMAC) to the College of Graduate Studies. GMAT scores must be no more than five years old.
3. Three letters of reference from individuals who know the applicant in a professional capacity.
4. The statement of purpose as required on the application for admission.
5. In the case of students whose native language is not English, a score of at least 550 (paper based), 213 (computer based), or 80 (internet based) on the Test of English as a Foreign Language (TOEFL) or a score of 6.5 on the International English Language Testing System (IELTS) test is mandatory. The College of Graduate Studies determines whether applicants must take the TOEFL or IELTS examination.

Applications for admission are considered on a rolling basis. However, students are encouraged to submit their applications by the following dates:

Domestic students:

- Fall semester August 1
- Spring semester November 15
- Summer semester April 15

International students:

- Fall semester May 1
- Spring semester October 1
- Summer semester March 1

Final admissions decisions will be withheld until the application for admission is complete. No materials submitted to the University will be returned to the applicant. The M.S.A. program admits students to the program on a rolling admissions basis.

Admission to Doctor of Philosophy in Manufacturing and Technology Management (Ph.D.) Program

Applicants with a master's degree in a technical field or business are preferred. Applicants with a bachelor's degree in a technical field or business may also be considered. Letters of reference from college faculty or employers acquainted with the student's character and ability, and official transcripts of all prior college work must be supplied. Applicants are expected to demonstrate preparation for, and a high promise of, success in the doctoral program.

The following will be considered in evaluating an application to the Ph.D. program on an individual basis:

- The student's undergraduate and graduate record with general academic performance, as well as the trend and comparison of grades over a period of time;
- The student's verbal, quantitative and total scores on the GMAT (in certain cases, depending on the academic background of the student, GRE scores may be substituted for GMAT scores);
- Evidence of the ability to do research (publications, presentations, etc.);
- Statement of purpose explaining why the student wants to pursue a Ph.D. in manufacturing and technology management;
- Three letters of reference;
- Appropriate experience;
- And, in the case of students whose native language is not English, acceptable performance on the TOEFL or IELTS is mandatory. The College of Graduate Studies determines whether applicants must take the TOEFL or IELTS examination.

It is to be stressed that, although GMAT and GPA are important, they alone will not be the basis of admissions decisions. While students may come from many academic disciplines, those students with bachelor's degrees in fields

other than business may require more than 93 semester hours in order to satisfy prerequisite and business foundations course requirements. **Students admitted to the Ph.D. program will not receive graduate credit for any undergraduate courses they take.**

A student should take the Ph.D. comprehensive examination as soon as he/she and his/her adviser believes the student has mastered all the required subject areas and completed all course work. The format and other details of the examination are given in the handbook for Ph.D. students and are available on-line. Following successful completion of the comprehensive examination, the student is admitted to candidacy for the Ph.D. and undertakes dissertation research. The student is responsible for initiating the application to candidacy on a form available from the College of Graduate Studies.

When a student enters the program, the Ph.D. program director will help the student in preparing a plan of study. Each student will be assigned a faculty adviser by the Ph.D. program director at the time of admission. During this first year of study, the student will choose an adviser who will assist the student in choosing a dissertation topic, forming a dissertation committee and in other matters concerning the program. More information is available at: <http://www.utoledo.edu/business/PHD/index.html>.

Academic Policies

General Requirements

Refer to the general College of Graduate Studies section of this catalog for general academic policies that apply to all graduate students in areas such as advising, minimum enrollment, dishonesty, grievance, and probation and dismissal.

Academic Advising

Advising for the M.B.A. program is available in the Office of Retention and Student Academic Success on the third floor of Stranahan Hall-North. Advising for the E.M.B.A., M.S.A. and Ph.D. programs is conducted by the respective program director. Students are encouraged to meet with an adviser regularly. Each student is ultimately responsible for correct and timely completion of degree requirements.

Financial Assistance

A limited number of graduate assistantships, which provide a stipend and/or cover instructional fees, are awarded to students each year. Awards are based upon scholastic achievement, work experience, research experience and extracurricular activities. They are not based on financial need. Applications are due by March 1 for the entire following academic year to the Office of Retention and Student Academic Success for M.B.A. students, and to the Department of Accounting for M.S.A. students. Graduate Assistantships are awarded to qualified Ph.D. students upon admission to the Ph.D. program.

Transfer Students

Students who have taken graduate course work at another AACSB-accredited university or from another college at The University of Toledo may, upon recommendation of the appropriate department chair and associate dean for graduate studies, be permitted to transfer up to nine semester hours of business-related course work toward the M.B.A. or M.S.A. A grade of B or higher must be achieved in order to transfer any graduate courses, and the transferred credit must not have been applied towards an earned graduate degree.

Degree Requirements

GPA and Grade Requirements

Students in all graduate degree programs at the University of Toledo must complete all requirements for their program

of study with at least a 3.0 (4.0 scale) cumulative GPA at the graduate level. All courses that count towards a graduate degree must be passed with a grade of C or better. There are no grade re-calculations at the graduate level; as such, repeated courses will have both grades included in the cumulative GPA calculation.

Master of Business Administration (M.B.A.)

The M.B.A. degree is granted to students who satisfactorily complete a minimum of 33 semester hours at the 6000-level in the College of Business and Innovation. The length of the program will vary depending upon the nature of the undergraduate degree. The program consists of a common body of knowledge (18 hours), core (24 hours) and elective (9 hours) courses. Any or all common body of knowledge courses may be waived for equivalent coverage at the undergraduate or graduate level with a grade of C or better.

Master of Science in Accounting (M.S.A.)

The Master of Science in Accounting degree is granted to students who satisfactorily complete a minimum of 30 semester hours at the 6000-level in the College of Business and Innovation. The M.S.A. program is designed to prepare students for a professional career in accounting and to fulfill the requirements to sit for the Uniform CPA Exam in the state of Ohio. Candidates without a background in accounting can be admitted to the program but will be required to take additional courses.

Doctor of Philosophy in Manufacturing and Technology Management (Ph.D.)

The program requires at least 93 semester hours of study beyond the baccalaureate. For a full-time student with only a bachelor's degree, the course requirements before entering the dissertation stage can be completed in three years. Full-time students with an M.B.A. or a relevant M.S. degree should be able to complete the course work in two years before entering the dissertation stage. During the first year, the students without prior appropriate undergraduate or graduate work in business or engineering will acquire the foundation knowledge in business, engineering and manufacturing technology. Course waivers are possible at the foundation stage by passing competency examinations in appropriate areas.

Programs of Study

1872
2011-2012 Catalog

Master of Business Administration (M.B.A.)

Common Body of Knowledge (18 hours maximum)

These courses represent the minimum background required of students prior to taking 6000-level courses in the M.B.A. program. Students admitted to the M.B.A. program can meet the requirements by taking the 5000-level courses or by proficiency examination. If a student can demonstrate that he/she has completed equivalent course work at the undergraduate level prior to admission to the M.B.A. program and has earned a grade of C (2.0) or better in the course(s), the corresponding 5000-level course may be waived. Once admitted to the M.B.A. program, students may not take an undergraduate course and apply that course towards credit for 5000-level requirements.

ACCT	5000	Financial & Managerial Accounting
BANS	5210	Economics for Business Decisions
FINA	5310	Managerial Finance
MKTG	5410	Marketing Systems
OPMT	5510	Applied Business Statistics
OPMT	5520	Analysis of Manufacturing and Service Systems

MBA Core (24 hours)

These courses are required of all students. They are reflective of business techniques, methodology and processes, and are designed to be cross-functional and integrative.

BUAD	6100	Accounting for Strategic Decisions
BUAD	6200	Financial Systems
BUAD	6300	Strategic Marketing & Analysis
BUAD	6400	Results-Based Management
BUAD	6500	International Business
BUAD	6600	Supply Chain Management
BUAD	6800	Information Technology & E-Business
BUAD	6900	Strategic Management Capstone

Students who complete three or more courses in a functional area (e.g. accounting, finance, marketing) at an AACSB-accredited business school are allowed and encouraged to replace the corresponding 6000-level core class with an elective of their choice.

Elective Courses (9 hours)

Each student may select up to two majors. An alternative is to select the administration major described below, which is designed for students who prefer to take a variety of electives in different areas. The substitution of any courses for a major requires the written approval of the appropriate department chair. No more than one independent study/research paper (three hours) may be taken in lieu of a course to fulfill a specialization requirement, and no more than one course will be allowed to count towards two majors in the M.B.A. program.

Areas of Specialization

Administration

The administration specialization is designed for students who want a general M.B.A. degree and is completed by taking three 6000-level electives within the College of Business and Innovation.

Entrepreneurship & Technology Commercialization

Must take all four of the following:

EFSB	6590	New Venture Creation
EFSB	6690	Tech Commercialization
EFSB	6790	Venture Capital Finance
EFSB	6800	Small Business Practicum

Finance

The graduate finance curriculum provides students with a background in all major areas of finance including corporate finance, investments and portfolio management, and financial institutions and markets. A student who wants to specialize in finance must take FINA 6130, Managerial Finance, plus two from the following list:

FINA	6140	Investments & Securities Analysis
FINA	6150	Financial Institutions and Markets
FINA	6330	Seminar in Financial Management
FINA	6340	Seminar in Portfolio Management
FINA	6350	Seminar in Financial Institution Management
FINA	6370	International Financial Management
FINA	6480	Student Managed Portfolio
FINA	6840	Small Business Financial Management

Human Resource Management

A specialization in human resource management is designed both for students who intend to seek or continue managerial careers in human resources, and for those who are seeking more general leadership positions, but need to understand approaches to attracting, retaining, compensating, motivating and managing employees in contemporary organizations.

Students are required to successfully complete HURM 6700, Human Resource Management, or its equivalent, by completing either an undergraduate degree in human resource management from an AACSB-accredited school, or by certification through the Human Resource Certification Institute (e.g. PHR, SPHR).

In addition to HURM 6700, students must complete any three additional courses from the following list:

HURM	6710	Employment and Labor Law
HURM	6720	Advanced Negotiation and Conflict Resolution
HURM	6730	Performance Management
HURM	6740	HR Strategy and Metrics
HURM	6750	Current Topics in HRM
HURM	6760	Recruitment and Retention

Information Systems

Specialization in information systems provides the student with a managerial overview of computers and information systems. Emphasis is placed on the role and function of the computer as a managerial tool to store, process, analyze and present information. A major in this area includes any three of the following:

INFS	6610	Info Storage & Retrieval Structures
INFS	6560	System Analysis & Design
INFS	6470	Information Technology
INFS	6810	Network Communications
INFS	6930	Contemporary Topics

International Business

The international business program provides training for entry in careers in corporations with a global orientation, particularly multinational corporations, export-import firms, banks, transportation and logistics, and government and international agencies involved in international trade, finance and economic development. Students majoring in international business must choose three of the following courses.

FINA	6370	International Financial Management
IBUS	6360	Management of Multinational Firms
IBUS	6390	International Business
IBUS	6490	Global Management Systems
MKTG	6080	International Supply Chain Management
MKTG	6400	International Marketing
IBUS	6100	Study Abroad

Leadership

Students majoring in Leadership must take all four of the following:

MGMT	6100	Leading through Ethical Decisions
MGMT	6150	Leading and Developing Yourself
MGMT	6160	Leading with Power and Influence
MGMT	6190	Leading Change and Org Improvement

Operations Management

The operations management major provides the student with the decision-making and problem-solving skills required for managing people and resources more effectively, whether in manufacturing firms, service industries, nonprofit organizations or government operations.

Required courses:

OPMT	6680	Total Quality Management and SPC
OPMT	6690	Manufacturing Resources Management

And one of the following:

OPMT	6100	Time Series Analysis & Forecasting
OPMT	6270	Computer Simulation
OPMT	6510	Project Management
OPMT	6720	Manufacturing Systems Design
OPMT	6930	Contemporary Topics Seminar
MKTG	6080	International Supply Chain Management

Marketing

Students specializing in marketing must take any three of the following courses:

MKTG	6140	Customer Relationship Marketing
MKTG	6150	Intelligence Driven Customer Strategy
MKTG	6220	Integrated Marketing Communications
MKTG	6230	Digital Marketing Processes
MKTG	6240	Sales Force Leadership
MKTG	6250	Strategic Account Management
MKTG	6310	Product Commercialization
MKTG	6320	Strategic Brand Management
MKTG	6330	Applied Marketing Research
MKTG	6400	International Marketing

Graduate Certificate in Supply Chain Management (15 hours)

This certificate is offered as part of the graduate programs in the College of Business and Innovation. The program requires five graduate courses, totaling 15 hours of graduate credit, including a three-hour prerequisite course that may be waived for applicants who can demonstrate knowledge of the subject area. Applicants may be accepted directly to the certificate program, but must meet the entrance requirements for the M.B.A. program with the exception of the GMAT exam. Students who subsequently apply and are accepted into the M.B.A. program may use these credits to partially satisfy the requirements for that program, subject to University and M.B.A. program regulations.

The certificate is intended for those who wish an entry-level credential into the supply chain management field, and for those currently in the field who wish to deepen their knowledge. Completion of the certificate program should prepare the student to take the first four exams of the APICS CPIM certification, which itself is a prerequisite for the APICS CSCP certification.

Except for the prerequisite course, the courses may be taken in any order:

OPMT	5520	Manufacturing and Service Systems. (prerequisite, required for all courses below)
BUAD	6600	Supply Chain Management.

MKTG	6080	International Supply Management
OPMT	6680	Total Quality Management and SPC
OPMT	6690	Supply Chain Resources Management

Executive M.B.A. Program Curriculum

The College of Business and Innovation offers an innovative Executive M.B.A. (E.M.B.A.) program for executives of mid-sized and growing firms. The program curriculum is designed to enhance the ability of managers to manage the change and growth common in today's competitive environment. To accomplish this, participants in the program take courses built around three major integrative themes – entrepreneurship, e-business, and competition in a global marketplace.

The E.M.B.A. program is designed with experienced managers in mind and is tailored to fit their schedules. Through the use of a structured approach, executives are able to pursue an M.B.A. with their peers at a level and pace appropriate to their business experience. The program is completed in 15 months. Courses are taught in a convenient two-weekend-on, and-one-weekend-off format. Classes are held on Friday evenings and all day Saturday.

Required Courses:

EMBA	5500	Analytical Foundations for Executives
EMBA	6100	Global Competitive Challenge
EMBA	6120	Cultural, Legal & Operational Issues in Doing Business Abroad
EMBA	6200	Entrepreneurship and Personal Strategic Planning
EMBA	6140	Accounting & Financial Foundations for Executives
EMBA	6210	Processes for Ethical Business Decisions
EMBA	6220	Accounting Systems for Operational Control & Strategic Management
EMBA	6230	Market Driven Analysis
EMBA	6240	Entrepreneurial Financial Management
EMBA	6250	Leadership & Performance Management
EMBA	6290	Strategic Management in a Global Environment
EMBA	6300	Global Technology Management
EMBA	6310	Managing Global Supply Chains
EMBA	6320	Product Development
EMBA	6470	Global/E-Business Field Trip
MGMT	6930	Independent Research (elective determined by cohort)

J.D./M.B.A. Dual Degree

This integrated program and curriculum leads to the awarding of two degrees. The juris doctor degree is awarded by the College of Law, and the M.B.A. degree is awarded by the College of Business and Innovation.

Juris Doctor (J.D.)

The College of Law requires the successful completion of 89 semester hours. The dual degree program would permit up to 12 semester hours of core courses from the College of Business and Innovation to be applied toward the satisfaction of the 89-hour requirement. The 12 hours of core courses from the College of Business and Innovation are:

BUAD	6100	Accounting for Decision-Making
BUAD	6200	Financial Systems
BUAD	6300	Strategic Marketing & Analysis
BUAD	6500	International Business
BUAD	6800	Information Technology & E-Business
BUAD	6900	Strategic Management Capstone
EFSB	6590	New Venture Creation
EFSB	6690	Technology Commercialization
EFSB	6790	Venture Capital Finance
EFSB	6890	Small Business Practicum
FINA	6130	Managerial Finance
FINA	6140	Investments and Security Analysis

FINA	6150	Financial Institutions and Markets
FINA	6370	MBA International Financial Management
FINA	6840	Small Business Financial Management
IBUS	6360	Management of Multinational Firms
IBUS	6490	Global Management Systems
MGMT	6160	Leading with Power and Influence
HURM	6720	Advanced Negotiation and Conflict Resolution
HURM	6760	Recruitment and Retention
INFS	6810	Network Communications
MKTG	6140	Customer Relationship Marketing
MKTG	6400	International Marketing

On written application by the student, and for good cause shown, the Associate Dean for Academic Affairs of the College of Law may substitute another College of Business course for one on the approved list.

M.B.A. Degree

To fulfill requirements for the M.B.A. degree, students must complete 33 semester hours at the 6000 level or above. Students in the joint program may apply up to 12 hours of course work at the College of Law toward satisfaction of the M.B.A.

One MBA Core course (either BUAD 6500 International Business or BUAD 6800 IT and E-Business) can be replaced with one College of Law Elective (either LAWI 9480 International Business Transactions or LAWI 9020 E-Commerce, respectively).

The other 9 hours may come from the following courses, or others approved by the College of Business and Innovation Associate Dean for Graduate Programs, and will serve as MBA electives:

LAWG	9010	Business Associations
LAWG	9610	Secured Transactions
LAWI	9060	Sales and Leases of Goods
LAWI	9300	Employment Discrimination
LAWI	9730	Pension and Employee Benefits
LAWI	9310	Employment Law
LAWI	9940	White Collar Crime
LAWN	9050	Negotiation and Settlement
LAWD	9210	Contracts I
LAWD	9220	Contracts II

MD/MBA Dual Degree

The integrated program and curriculum leads to the awarding of two degrees. The Doctor of Medicine is awarded by the College of Medicine and the MBA is awarded by the College of Business and Innovation. The College of Business and Innovation will allow up to 9 credit hours of appropriate Medical School coursework to be credited toward the MBA degree.

It is recommended that MD/MBA students take 3 of the 4 Medical School courses below to serve as MBA electives. These courses are already part of the 4th year MD curriculum.

FMDD	725	Healthcare Systems: Issues, Trends and Perspectives
FMDD	770	Health Law
MEDI	770	Health Care Administration: Special Topics
PEDS	723	Child Health Advocacy

Another option is for MD/MBA students to complete 2 of the 4 Medical School courses listed above, along with 1 elective from the list below. The courses below are semester long courses (subject to availability) and cannot be taken during a medical student's required clerkship or clinical elective time. The course would have to be taken during the dedicated year of MBA study (typically the 3rd year of the MD/MBA program).

This option does allow MD/MBA students the opportunity to fulfill the 4 week basic science elective required for medical school. Students should consult with their MD and MBA Academic Advisors to determine the best approach for completing the dual degree based on their academic background and individual plan of study.

PUBH	604	Public Health Administration
PUBH	621	Management of Public Health Agencies
PUBH	622	Budget and Finance in Public Health
PUBH	635	Public Health Law
MGMT	6100	Leading Through Ethical Decision Making
HURM	6700	Human Resource Management
HURM	6710	Employment and Labor Law
EFSB	6590	New Venture Creation

Master of Science in Accounting (M.S.A.) Curriculum

Accounting Core Courses:

ACCT	6130	External Financial Reporting III
ACCT	6190	Contemporary Financial Accounting Problems
ACCT	6210	Research in Accounting and Taxation
ACCT	6310	Advanced Managerial Accounting
ACCT	6420	Auditing

Accounting Electives (Select three):

ACCT	6150	International Accounting and Taxation
ACCT	6220	Corporate Tax
ACCT	6320	Cost Analysis and Control
ACCT	6410	Governmental and Not-for-Profit Accounting
ACCT	6330	Advanced Topics in Accounting Info Systems
ACCT	6430	Business Valuation

Diversification Electives (Select two):

BUAD	6200	Financial Systems
BUAD	6300	Strategic Marketing & Analysis
BUAD	6400	Results Based Management
BUAD	6500	International Business
BUAD	6600	Supply Chain Management
BUAD	6800	Information Technology & E-Business

MSA Common Body of Knowledge

Based on the candidate's prior course work, any or all of the MSA Common Body of Knowledge may be waived (each course is three semester hours):

ACCT	5000	Financial and Managerial Accounting
ACCT	3100	Financial Accounting and Systems
ACCT	3110	External Financial Reporting I
ACCT	3210	Individual Taxation
ACCT	3310	Accounting Information Systems
ACCT	5120	External Financial Reporting II
ACCT	5320	Internal Reporting
BANS	5210	Economics for Business Decisions
FINA	5310	Managerial Finance
OPMT	5510	Business Statistics with Computer Applications

Doctor of Philosophy in Manufacturing and Technology Management (Ph.D.)

The purpose of the Ph.D. program is to train scholars to meet traditional standards of excellence in, and contribute to, the manufacturing and technology management field through research, teaching and publication in academic and professional journals. The program is designed for individuals who seek to contribute to the advancement and dissemination of knowledge in manufacturing and technology management through an integrative approach with sound foundations in business, technology, and research methodology. Graduates are expected to pursue careers in academia,

consulting, research or manufacturing organizations.

The basic philosophy underlying the doctoral program is researchers in manufacturing and technology management require a careful and creative mix of functional management specialties, economics, technology, supply chain management, manufacturing, commercialization, and information technologies, and analytical tools such as statistics, optimization and research methodology. Therefore, the program is designed to provide students with abilities and skills to integrate and synthesize these diverse yet important related areas.

Prerequisites

One year of calculus
Statistics that include regression and analysis of variance
One academic term of computer systems with applications
Micro- and Macro-economics

Prerequisites should be completed before starting the Ph.D. program.

Business Foundation Courses (18 hours)

ACCT	5000	Financial & Managerial Accounting
MGMT	5110	Principles of Management
FINA	5310	Managerial Finance
MKTG	5410	Marketing Systems
OPMT	5520	Analysis of Manufacturing and Service Systems

Ph.D. Program Curriculum

Quantitative and Research Methods: (12 hours)

MFGM	8630	Management Science
MFGM	8860	Advanced Statistics
MFGM	8880	Research Methods and Theory Building
MFGM	8870	Seminar in Statistics/Research Method (or elective)

Major Field: Integrative Seminars: (20 hours)

MFGM	8480	Management of Technology
MFGM	8490	Supply Chain and E-Business Issues in Manufacturing
MFGM	8690	Innovation and Technology Commercialization
MFGM	8830	Org. Issues in the Implementation of Technology
MFGM	8890	Advanced Manufacturing System
MFGM	8980	Special Topics Seminar
MFGM	8810	Seminar/Colloquia

Minor Field: (12 hours)

Students can choose one of the following as a minor: operations, marketing and customer relationship management, human resources, international business, information systems. The minor will be a supporting field of three courses at the master's (MBA) level, and a related advanced seminar with the objective of integrating the Manufacturing and Technology Management major field with developments in the minor field of interest.

Dissertation: MFGM 8990 (16 hours)

Dissertation Research

The dissertation must be based on work initiated and undertaken specifically for that purpose. It must reflect a high level of scholarship, must constitute a substantial piece of work, and must indicate and document its claim to be a significant contribution to knowledge in its subject area.

Details regarding the dissertation research, starting with the dissertation proposal and ending with the final defense, are available in the handbook for Ph.D. students, which is available on the Ph.D. website.
<http://www.utoledo.edu/business/PHD/index.html>.

