

College of Business and Innovation

2017-2018 Graduate Catalog

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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./M.B.A.)
- A dual Master of Public Health/Master of Business Administration (M.P.H./M.B.A.)
- A dual Pharmacy/Master of Business Administration (Pharm.D./M.B.A.)
- A dual Bachelor of Science in Engineering/Master of Business Administration (B.S./M.B.A.)
- A joint bachelor of arts in disability studies/master of business administration (Plan of Study)
- Master of Science in Accountancy (M.S.A.)
- Doctor of Philosophy in Manufacturing and Technology Management (Ph.D.)

Specializations within the Master of Business Administration Program

- General Administration
- Finance
- Healthcare Systems Management: Public Health Administration Concentration
- Human Resource Management
- Information Systems

- International Business
- Leadership
- Marketing
- Operations and Supply Chain Management

Specializations within the Master of Science in Accountancy

- General Track
- Auditing and IT Track
- Financial Reporting and Finance Track
- Strategic Management Track
- Accounting and Operations Management Track

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.

The typical admitted student in the M.B.A. program has at least a 2.7 undergraduate GPA and 450 on the GMAT. However, for admission to the M.B.A. 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.
 - a. GMAT Waivers
 - i. Who is eligible for consideration for a GMAT waiver?
 - ii. UT COBI BBA undergrads graduating in Spring 2016 and 3.0 GPA or UT undergrads from another college with a business minor graduating in Spring 2016 and a 3.0 GPA.
 - iii. UT graduates with COBI BBA and 3.0 GPA or UT graduates with business minor and a 3.0 GPA. Graduated in last three years.
 - iv. UT graduates with non-BBA and a 3.3 GPA or UT graduates with non-business minor and a 3.3 GPA. Graduated in last three years.
 - v. UT graduates with non-business graduate degree and a 3.3 GPA. Graduated in last three years.
 - vi. Any candidate with a bachelor's degree; a 3.0 GPA; and significant, relevant and progressive work experience (deemed acceptable by COBI Graduate Programs Office and COBI Executive Associate Dean).
 - b. Inquirers must have completed the online application for enrollment in the term in which they are requesting the GMAT waiver.
 - c. The GMAT waiver will be valid for the term of admission per the online application.
 - i. If the student does not enroll in the original term of admission, they may request that the COBI Graduate Programs Office re-evaluate their GMAT waiver request for the new term of admission.
 - d. This waiver does not apply to graduate assistantships. Applicants who want to be considered for a graduate assistantship, must take the GMAT and score 500 or higher.
 - e. This waiver does not apply to the MSA, EMBA, or global MBA programs.

3. At least one letter of reference from individuals who know the applicant in a professional capacity.
4. The statement of purpose as required on the application for admission.

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 6.5 on the International English Language Testing System (IELTS) is mandatory.

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 MPH/M.B.A. Program

Students applying for the Master of Public Health/M.B.A. dual degree 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 MPH/M.B.A. dual degree program. If the applicant is required to take the GRE by the MPH Admission Committee, the College of Business and Innovation will accept GRE scores in lieu of the GMAT. If the applicant does not need to take the GRE for admission to the MPH program, the applicant must then take the GMAT examination for admission to the M.B.A. Program.

Admission to one program does not guarantee admission to the other program. Refer to the College of Medicine and Life Sciences and M.B.A. sections of this catalog for specific admission standards for each program.

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

Students applying for the PharmD./M.B.A. program must have earned a bachelor's degree. A student must apply and be admitted to the College of Pharmacy and Pharmaceutical Sciences and the College of Business and Innovation separately to be admitted to the PharmD./M.B.A. dual degree program. The PCAT 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 Pharmacy and Pharmaceutical Science and M.B.A. sections of this catalog for specific admission standards for each program.

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 senior 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 Student Retention and 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. Employer nomination form and two letters of recommendation from individuals who know the applicant in a professional capacity, one of which must be from the applicant's employer. The employer nomination form must be completed by someone other than those completing the letters of recommendation. Self-employed applicants may substitute the employer nomination with a third professional reference.
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) is mandatory. **

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

** The TOEFL can be waived for applicants who are permanent residents and have worked in the US for more than one year provided the E.M.B.A. Admissions Committee determines the applicants' language proficiency. If an applicant to the E.M.B.A. program is on an F1 or J1 visa, they must provide passing TOEFL or IELTS scores unless there is evidence of an earned US degree.

All applicants to the E.M.B.A. 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 Accountancy (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. The minimum GMAT score is 500, must be no more than five years old.*
3. The GMAT may be waived for applicant who have earned:
 - a. An undergraduate degree from UT (minimum 3.00 GPA) within the last ten years, or MBA or
 - b. A masters in economics (minimum 3.00 GPA) within the last ten years, or
 - c. An active practicing CPA/CMA, or passed the CPA/CMA exam within the last five years
4. Most recent resume or curriculum vitae including contact information for two references (name, title, place of employment, phone number and e-mail address).

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 6.5 on the International English Language Testing System (IELTS) is mandatory.

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.

* The GMAT may be waived for applicants who have earned a:

1. BBA from UT (minimum 3.00 GPA) within the last ten years, or
2. MBA or master in economics (minimum 3.00 GPA), or
3. Active CPA/CMA. Or passed the CPA/CMA exam within the last ten years

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.

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>.

*No new students are being accepted into this program at the present time.

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 Graduate Programs Office located in Stranahan Hall Suite 1016. 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. Academic Advisors are here to assist with student concerns related to academics, policies and procedures, academic planning, and graduation. Academic Advisors, at times, may also provide referrals for services. While Academic Advisors are here to assist with students as needed, each student is ultimately responsible for correct and timely completion of degree requirements.

The Degree Audit Reporting System (DARS) is an automated record that contains all of a student's graduation requirements and tracks that student's progress toward meeting those requirements. Degree audits are available to students online through the myUT portal Student Self-Service. Students are encouraged to keep current degree audits for their personal use and to discuss their degree audits with their Academic Advisors.

Students interested in changing their major or program are encouraged to meet with their Academic Advisor to discuss how the change will impact program requirements, timely completion, and career aspirations.

Financial Assistance

Each year the College of Business and Innovation (COBI) offers Graduate Assistantships to a very small percentage of students with a history of academic excellence. Awards are based upon scholastic achievement, work experience, research experience and extracurricular activities. They are not based on financial need. Priority decisions for the academic year awards (Fall/Spring) are awarded to applicants who apply by the March 1st deadline date. Priority decisions for partial year awards (Spring) are awarded to applicants who apply by the October 1st deadline date.

Graduate Assistantships may include a tuition waiver for up to 9 credit hours for each Fall and Spring semesters. Most Graduate Assistantship awards do not cover Summer semesters. Students may submit a Graduate Assistantship application with their program application through the College of Graduate Studies or submit a Graduate Assistantship application to the Graduate Programs Office. Department of Accounting for M.S.A. students also accepts separate Graduate Assistantship applications. 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 Executive Associate Dean for Graduate Studies, be permitted to transfer up to twelve semester hours, not to exceed one-third of the hours required for the graduate degree, 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 in whole or in part toward any other degree or certificate from another university. Students must hold regular admission status and be actively pursuing a graduate degree before requesting transfer credit. Transfer credits must have been earned within the

period of six years immediately preceding the time the degree is awarded.

Student Academic Conduct and Academic Grievance

Issues related to charges of student academic misconduct or disputes as to final course grades and or program dismissal, and the procedures for resolving such issues are set forth by the specific language of the College of Business and Innovation Code of Student Academic Conduct and the procedures for resolution of such issues in the College of Business and Innovation Student Academic Grievance Procedure. Procedural guidelines are located on the college's web site.

College of Business and Innovation Code of Student Academic Conduct:

<http://www.utoledo.edu/business/COBI/COBIDocs/CodeOfAcademicConduct.pdf>

College of Business and Innovation Student Academic Grievance Procedure:

<http://www.utoledo.edu/business/COBI/COBIDocs/GrievanceProcedure.pdf>

Student Grievance Form:

<http://www.utoledo.edu/business/COBI/COBIDocs/StudentGrievanceForm.pdf>

[UT-Graduate Academic policies](#)

Academic Probation and Dismissal

Graduate students whose cumulative GPA falls below 3.0 during any semester will be automatically placed on academic probation. Full-time students on academic program will have at most two semesters to meet the cumulative GPA standard. A student failing to meet the standard will be subject to dismissal. A part-time student on academic probation will be required to meet the GPA standard after 18 additional credit hours of graduate coursework. Students are required to meet with their Advisor to develop a plan of action to improve their GPA.

A grade of C (2.0) is the minimum passing grade for graduate courses. Grades of below C will continue to be counted in calculating the cumulative grade point average. Students are not permitted to exceed two courses, for a maximum of 12 credit hours, of course retakes. Both the original and the repeated grades will appear on the transcript and will be calculated into the cumulative GPA. Grade deletion is not an option at the graduate level.

Students who are subjected to Academic Dismissal must sit out for minimum of two calendar years prior to seeking program readmission. A student may exercise the graduate academic fresh start option by submission of a petition to the Vice Provost for Graduate Affairs and Dean of the Graduate College once the student is readmitted and successfully completes 12 credit hours (not to exceed three semesters) with a grade of B (3.0) or higher in each courses. Academic Fresh start will remove the graduate cumulative grade point average for all grades earned under the student's prior enrollment at the University of Toledo. All University of Toledo grades will remain on the student's official, permanent academic record.

Readmission

The readmission process is required for graduate students who have not registered for one calendar year or more and wish to complete the program to which they were previously admitted or those who wish to return from an approved leave of absence. Students need to work with their Advisor to prepare the materials required to complete the readmission application. All required readmission materials must be completed and approved through the College of Business and Innovation before the application will be reviewed by the Graduate College. Admissibility and catalog eligibility will be determined during this process. Upon review and approval, the matriculation will be reopened and notification sent to both the student and Advisor by the Graduate College. A fee of \$50 is assessed for the readmission process. This fee is applied to the student account at the time the readmission process is completed.

Students who have exceeded the original time limit for degree (6 years) at the time of completing the readmission process will have to seek either: Continuation of Matriculation for Degree (one year extension) or Request for Time Extension & Course Recertification (beyond one year). Students will work with their Academic Advisor to complete the additional request.

Graduation

When students are nearing the completion of their program, they must file an application to graduate by the posted deadline dates through the College of Graduate Studies or online through myUT portal. The College of Graduate Studies will verify that all requirements have been satisfied before notification will be sent to the Registrar's Office of degree completion. Students are encouraged to work closely with their Academic Advisor to ensure all degree requirements have been met. Students are also encouraged to review the Master's Students Degree Completion Requirements on the College of Graduate Studies website.

University commencement is held twice per year: Spring and Fall. Summer graduates are invited to participate in either the Fall or Spring commencement however, Summer graduates will be included in the Fall commencement program.

The College of Business and Innovation convocation ceremony is a more personal ceremony reserved for College of Business and Innovation students only. Convocation is held in Spring semester only. This is a ticketed event with limited guest seating. Students are expected to dress in academic regalia and will be individually recognized on stage.

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 - 12 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 Accountancy (M.S.A.)

The Master of Science in Accountancy 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

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
FINA	5210	Economics for Business Decisions
FINA	5310	Managerial Finance
MKTG	5410	Marketing Systems
OSCM	5510	Applied Business Statistics
OSCM	5520	Analysis of Manufacturing and Service Systems

M.B.A. 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	Corporate Finance
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 undergraduate level courses in a functional area at an AACSB-accredited business school are eligible and encouraged to replace the corresponding 6000-level core class with an M.B.A. elective of their choice.

Elective Courses (Minimum 9 hours)

Each student may select up to two majors. An alternative is to select the general 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 (Majors)

General Administration

The General Administration major is designed for students who want the added flexibility of taking courses in a variety of areas. The General Administration major is completed by taking three 6000-level M.B.A. electives within the College of Business and Innovation. Students are not permitted to take PUBH courses toward the General Administration major.

Finance

The Finance major provides students with a background in all major areas of finance including corporate finance, investments and portfolio management, and financial institutions and markets. Students majoring in Finance must choose three of the following courses.

FINA 6130	Advanced Corporate Finance
FINA 6140	Investments & Securities Analysis
FINA 6150	Financial Institutions & Markets
FINA 6340	Derivative Securities
FINA 6370	International Financial Management
FINA 6480	Student Managed Portfolio Practicum
FINA 6840	Small Business Finance

Healthcare Systems Management

The Healthcare Systems Management major with a concentration in Public Health Administration is designed for students who intend to seek or continue managerial careers in healthcare administration. Students in this major are required to meet with their Academic Advisor prior to registering for PUBH courses denoted as BGSU courses to complete the Graduate Concurrent Enrollment Program form. Students are responsible for fees for BGSU courses paid directly to BGSU. Students are not able to apply any of these courses towards the General Administration major. Students majoring in Healthcare Systems Management: Public Health Administration concentration must complete all of the following courses.

PUBH 6010	Public Health Epidemiology
PUBH 6040	Public Health Administration (BGSU)
PUBH 6050	Introduction to Environmental Health
PUBH 6640	Issues in Public Health

Human Resource Management

The Human Resource Management major 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 (typically offered summer and fall terms), students majoring in Human Resource Management must choose three additional courses of the following.

HURM 6710	Employment and Labor Law
HURM 6720	Advanced Negotiation and Conflict Resolution
HURM 6730	Performance Management
HURM 6750	Current Topics in HURM
HURM 6760	Talent Management

Information Systems

The Information Systems major 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. Students majoring in Information Systems must choose three of the following courses.

INFS 6610	Info Storage & Retrieval Structures
INFS 6560	System Analysis & Design (prerequisite BUAD 6800)
INFS 6810	Network Communications
INFS 6930	Contemporary Topics (Repeatable with separate topics)
INFS 6710	Management of Information Systems Security (Spring)
INFS 6790	ERP Systems Configuration and Integration (Spring)
INFS 6150	Business Intelligence Management (Fall)

International Business

The International Business major 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 complete both:

Required:

IBUS 6360 Management of Multinational Firms (Fall)
MKTG 6400 International Marketing (Spring)^b

Students must also choose one of the following courses:

IBUS 6100 Study Abroad (Spring)
FINA 6370 International Financial Management
MKTG 6250 Global Sales & Strategic Account Management (Spring)^b
MKTG 6980 Special Topics (Varies; please consult an advisor as to appropriateness of topic in international setting)

^a Offered at least one live and one online section per year

^b Offered online section only

Leadership

The Leadership major provides students with the background necessary to motivate and inspire employees to work towards a common goal, plan for the future and focus on organizational goals, evaluate and counsel individual and group performance, manage and resolve conflicts, and improve oral and written communication. Students majoring in Leadership must complete all of the following courses.

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 and Supply Chain Management

The Operations and Supply Chain 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. Students acquire the knowledge and skills to manage people, resources, and research operations from product design, process evaluation, TQM, facility layout, and planning and schedule perspective.

Required courses:

OSCM 6680 Quality Management and Six Sigma (Spring)
OSCM 6690 Supply Chain Resource Management (Fall)

And one of the following:

OSCM 6270 Simulation and Waiting Lines (Fall)
OSCM 6980 Special Topics (Spring)
OSCM 6250 Essentials of Business Analytics (Fall)
OSCM/INFS 6780 ERP Systems Process Management (Fall)

Marketing

The Marketing major provides the student with the skills to make decisions about product design and quality, pricing, channels of distribution, advertising, and personal selling in ways that enhance consumer satisfaction and further the goals of the organization. The student learns to approach problems with a clear understanding of the relationship between marketing and other business functions. There are two areas of concentration: Marketing Management and Professional Sales. While it is not possible for a specific concentration to be listed on the official transcript, students majoring in Marketing must complete one of two tracks.

Marketing Management

Students must complete both:

MKTG 6140 Customer Relationship Marketing (Spring, Summer)^a
MKTG 6220 Integrated Marketing Communications (Fall, Summer)^b

Students must also choose one of the following courses

IBUS 6100 Study Abroad (Varies)
MKTG 6240 Sales Force Leadership & Strategy (Fall)^b
MKTG 6250 Global Sales & Strategic Account Management (Spring)^b
MKTG 6320 Strategic Brand Management (Varies)
MKTG 6400 International Marketing (Spring)^b
MKTG 6980 Special Topics (Varies)

Professional Sales

Students must take both:

MKTG 6240 Sales Force Leadership & Strategy (Fall)^b
MKTG 6250 Global Sales & Strategic Account Management (Spring)^b

Students must also choose one of the following courses:

IBUS 6100 Study Abroad (Spring)
MKTG 6140 Customer Relationship Management (Spring)^a
MKTG 6220 Integrated Marketing Communications (Fall)^b
MKTG 6980 Special Topics (Varies)

^a Offered at least one live and one online section per year

^b Offered online section only

Executive M.B.A. Program

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.

Required Courses:

EMBA 5500	Analytical Foundations for Executives
EMBA 6100	Global Competitive Challenge
EMBA 6200	Entrepreneurship and Personal Strategic Planning
EMBA 6140	Accounting & Financial Foundations for Executives
EMBA 6220	Accounting Systems for Operational Control & Strategic Management
EMBA 6230	Market Driven Analysis
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 6470	Global/E-Business Field Trip

Elective Courses (6 hours required)

EMBA 6980 Special Topics (Varies)

B.S./M.B.A. Dual Degree

The B.S./M.B.A. program provides an opportunity to earn a dual degree through an integrated curriculum. Successful completion of the dual degree program leads to the awarding of two degrees. The B.S. in Engineering or Engineering Technology degree is awarded by the College of Engineering and the M.B.A. degree is awarded by the College of Business and Innovation. Students enrolled in the dual degree program will receive the B.S. and M.B.A. degrees independently. Students must complete their B.S. degree prior to graduating with their M.B.A. It is anticipated that by enrolling in the two programs simultaneously, a total of five years will be required for completion of both degrees.

To fulfill requirements for the M.B.A. degree, students must complete 33 semester hours at the 6000 level or above. Up to an additional 18 credit hours may be required if a student does not have an academic background in business. Students in the joint program may apply up to 18 hours of Common Body of Knowledge course work from the College of Engineering with a business minor toward satisfaction of the M.B.A. program requirements. The business minor courses should be chosen carefully to be used specifically toward the M.B.A. Common Body of Knowledge courses. All courses taken in the College of Engineering that are applied towards the M.B.A. program requirements must be earned with a grade of C (2.0) or higher. Students may opt for MIME 2600 to satisfy FINA 5210 Economics for Business Decisions.

This program will allow engineering students, in their final two semesters of study, to be taking M.B.A. 6000-level courses. The Common Body of Knowledge course requirements will be satisfied as part of the successful completion of the undergraduate level equivalent. Students who wish to pursue the program should make this known to the Senior 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 M.B.A. 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 taking graduate courses as a Provisional Admission status while simultaneously completing senior year requirements for the B.S. in engineering.

Joint B.A./M.B.A. Degree Program (Plan of Study)

The College of Business and Innovation in conjunction with the College of Language, Literature, and Social Science offers a plan of study for students wishing to major in Disability Studies (DST), minor in Business, and transition into the M.B.A program. This program provides a unique opportunity to combine undergraduate studies in business and social science in preparation for further graduate studies in business. This plan of study will guide student toward completing their undergraduate studies (major in DST/minor in business) by the end of their 7th semester and completing their M.B.A. by their 10th semester.

Students who wish to pursue this plan of study should meet with both their undergraduate LLSS advisor and the COBI graduate programs office as early as possible to plan a course sequence to fit the recommended timelines of this plan of study. 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 2.7 cumulative GPA. Undergraduate requirements for the general business minor must also be completed.

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

The J.D./M.B.A. program provides an opportunity to earn a dual degree through an integrated curriculum. Successful completion of the dual degree 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. Students enrolled in the dual degree program will not receive the J.D. or M.B.A. degree until all work required for both degrees have been completed.

Juris Doctor (J.D.)

The College of Law requires the successful completion of 89 credit hours. The dual degree program would permit up to 12 credit hours of M.B.A. courses from the College of Business and Innovation to be applied toward the satisfaction of the 89 credit hour requirement. All courses taken in the College of Business that are to be applied towards J.D. program requirements must be earned with a grade of B (3.0) or higher. The 12 hours of approved 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	Advanced Corporate Finance
FINA	6140	Investments and Security Analysis
FINA	6150	Financial Institutions and Markets
FINA	6370	M.B.A. International Financial Management
FINA	6840	Small Business Financial Management
IBUS	6360	Management of Multinational Firms
MGMT	6160	Leading with Power and Influence
HURM	6720	Advanced Negotiation and Conflict Resolution
HURM	6760	Talent Management
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

Students in the J.D./M.B.A. will be majoring in General Administration. If student opt to double major, all courses needed for the double major will need to be successfully completed. To fulfill requirements for the M.B.A. degree, students must complete 33 semester hours at the 6000 level or above. Up to an additional 18 credit hours may be required if a student does not have an academic background in business. 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. program requirements. The College of Law courses must have business application. All courses taken in the College of Law that are to be applied towards M.B.A. program requirements must be earned with a grade of C (2.0) or higher. All grades earned in College of Law courses that are applied towards M.B.A. program requirements will impact the overall graduate GPA.

One M.B.A. Core course (either BUAD 6500 International Business or BUAD 6800 Information Technology and E-Business) can be replaced with one College of Law elective (either LAWI 9480 International Business Transactions or LAWI 9020 E-Commerce, respectively).

Up to three College of Law courses listed below will serve as M.B.A. electives. Other College of Law courses may be approved by the College of Business and Innovation Associate Dean for Graduate Programs, to serve as M.B.A. 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

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

The M.D./M.B.A. program provides an opportunity to earn a dual degree through an integrated curriculum. Successful completion of the dual degree program leads to the awarding of two degrees. The Doctor of Medicine is awarded by the College of Medicine and Life Sciences and the M.B.A. is awarded by the College of Business and Innovation. Students enrolled in the dual degree program will not receive the M.D. or M.B.A. degree until all work required for both degrees have been completed. The M.B.A. degree requires a minimum of 33 credit hours at the 6000-level. Up to an additional 18 credit hours may be required if a student does not have an academic background in business. The College of Business and Innovation will allow up to 9 credit hours of approved M.D. coursework to be credited toward the M.B.A. degree.

It is recommended that M.D./M.B.A. students take 3 of the 4 Medical School courses below to serve as M.B.A. 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
INDI	774	Patient Safety and Quality Care

Another option is for M.D. /M.B.A. 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 M.B.A. study (typically the 3rd year of the M.D./M.B.A. program).

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

PUBH	6040	Public Health Administration
PUBH	6210	Management of Public Health Agencies
PUBH	6220	Budget and Finance in Public Health
PUBH	6350	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

M.P.H./M.B.A. Dual Degree

The M.P.H./M.B.A. program provides an opportunity to earn a dual degree through an integrated curriculum. The joint M.B.A./MPH degree is designed to prepare graduates with managerial and executive level career aspirations at the interface of healthcare delivery and business. The successful completion of the dual degree leads to the awarding of two degrees. The Master of Public Health degree is awarded by the College of Medicine and Life Sciences and the M.B.A. is awarded by the College of Business and Innovation. Students enrolled in the dual degree program can receive the M.P.H. or M.B.A. degree independently. The M.B.A. degree requires a minimum of 33 credit hours at the 6000-level. Up to an additional 18 credit hours may be required if a student does not have an academic background in business. The College of Business and Innovation will allow up to 9 credit hours of appropriate M.P.H. coursework to be credited toward the M.B.A. degree.

Appropriate M.P.H. courses listed under the Healthcare Systems Management: Public Health Administration concentration major of this catalog will be applied towards the M.B.A. elective area. Up to a maximum of 12 credit hours of 6000-level BUAD courses will apply towards the M.P.H. elective requirement.

Please refer to the College of Medicine and Life Science catalog for more information regarding the program requirements for the M.P.H. degree.

PharmD./M.B.A. Dual Degree

The PharmD./M.B.A. program provides an opportunity to earn a dual degree through an integrated curriculum. Successful completion of the dual degree program leads to the awarding of two degrees. The PharmD. Degree is awarded by the College of Pharmacy and Pharmaceutical Sciences, and the M.B.A. degree is awarded by the College of Business and Innovation. Students enrolled in the dual degree program can receive the PharmD. or M.B.A. degree independently. The M.B.A. degree requires a minimum of 33 credit hours at the 6000-level. Up to an additional 18 credit hours may be required if a student does not have an academic background in business.

Students apply and are admitted to the PharmD program after two years of preparatory course work in chemistry, calculus, biology, organic chemistry, physics, and anatomy. This rigorous curriculum ensures that students entering the program are well prepared. It is at this point, the first year in the PharmD program and the student's junior year, were they would begin their coursework towards the M.B.A. The following table identifies each M.B.A course and describes how the student will complete the work.

M.B.A. Pre-requisites

Common Body of Knowledge	Hours	Courses Take by PharmD Students	Hours
ACCT 5000	3	BUAD 2040 and BUAD 2050	6
FINA 5210 (economics)	3	BUAD 3040	3
FINA 5310 (finance)	3	ECON 1150 and ECON 1200	6
MKTG 5410868	3	BUAD 3010	3
OSCM 5510 (statistics)	3	PHPR 4330 Research Design & Drug Literature Eval 1 PHPR 6340 Research Design & Drug Literature Eval 2 Or Any Statistics I equivalent course	4
OSCM 5520 (operations)	3	BUAD 3020	3

M.B.A. Curriculum

M.B.A. Core Courses	Hours	Courses Take by PharmD Students	Hours
BUAD 6100	3	BUAD 6100	3
BUAD 6200	3	BUAD 6200	3
BUAD 6300	3	BUAD 6300	3
BUAD 6400	3	BUAD 6400	3
BUAD 6500	3	BUAD 6500	3
BUAD 6600	3	BUAD 6600	3
BUAD 6800	3	BUAD 6800	3
BUAD 6900	3	BUAD 6900	3
Electives	9	APPE 8940 ¹ (3 courses @ 4 hrs ea)	12

¹ APPE 8940 – Advanced Pharmacy Practice Experiences in the “Management and Administration” track will enable students to apply content from the M.B.A. core.

having a M.B.A. major in General Administration. Students seeking a double major would be required to successfully meet the requirements set forth for each major.

The following table displays a potential matriculation pathway for this dual degree program.

Table 3. Potential matriculation pathway

Year	Fall Semester	Spring Semester	Summer Semester
1	Pre-prof Pharmacy Courses	Pre-prof Pharmacy Courses	
2	Pre-prof Pharmacy Courses	Pre-prof Pharmacy Courses	
Application and admission into the PharmD degree			
3	PharmD Coursework	PharmD Coursework	BBA Coursework
4	PharmD Coursework 1 BBA course	PharmD Coursework * 1 BBA course	1 PharmD Course 4 M.B.A. courses
5	PharmD Coursework 1 M.B.A. course	PharmD Coursework 1 M.B.A. course	M.B.A. Coursework
6	APPE Experiences	APPE Experiences	

* Students graduate with BSPS degree after the Spring semester year 2.

BBA – Bachelors of Business Administration, M.B.A. – Masters of Business Administration.

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

Accounting Core Courses:

- ACCT 6130 External Financial Reporting III (ACCT 4130 at the undergraduate level)
- ACCT 6190 Contemporary Financial Accounting Problems
- ACCT 6210 Research in Accounting and Taxation
- OSCM 6250 Essentials of Business Analytics

MSA Elective Courses for The “General MSA” And The “Specialized MSA Tracks”: 18 Hours (6 Courses) - At Least 12 Credit Hours (4 Courses) Of Accounting Electives.

GENERAL MSA

- **MSA 4 Core Courses (12 hours) above required of all MSA students**
- **Accounting Elective Courses - 12 hours (4 courses):**
 - ACCT 6150 International Accounting and Taxation
 - ACCT 6250 Taxation of Business Entities*
 - ACCT 6310 Advanced Managerial Accounting
 - ACCT 6330 Advanced Topics in Accounting Information Systems
 - ACCT 6410 Governmental & Not-for-Profit
 - ACCT 6430 Business Valuation
 - ACCT 6440 Advanced Auditing
 - ACCT 6450 Fraud and Forensic Accounting
 - ACCT 6960 Independent Study In Accounting: Advanced CPA Studies
- **Business Electives – 6 hours (2 courses):**
 - Two graduate business courses.

SPECIALIZED MSA TRACKS

AUDITING & IT TRACK

- **MSA 4 Core Courses (12 hours) above required of all MSA students**
- **Accounting Electives (12 hours) – Choose 4 courses from the following:**
 - ACCT 6410 Governmental & Not-for-Profit
 - ACCT 6440 Advanced Auditing
 - ACCT 6450 Fraud and Forensic Accounting
 - ACCT 6330 Advanced Topics in Accounting Information Systems
 - ACCT 6960 Independent Study In Accounting: Advanced CPA Studies
- **Business Electives (6 hours) – Choose 2 course from the following:**
 - INFS 6150 Business Intelligence Management
 - INFS 6610 Information Storage and Retrieval Structure
 - INFS 6710 Management of Information Systems Security.

FINANCIAL REPORTING AND FINANCE TRACK

- **MSA 4 Core Courses (12 hours) above required of all MSA students**
- **Accounting Electives (12 hours) – Choose 4 courses from the following:**
 - ACCT 6150 International Accounting and Taxation
 - ACCT 6250 Taxation of Business Entities*
 - ACCT 6310 Advanced Managerial Accounting
 - ACCT 6410 Governmental & Not-for-Profit
 - ACCT 6430 Business Valuation
 - ACCT 6960 Independent Study In Accounting: Advanced CPA Studies
- **Business Electives (6 hours) – Choose 2 course from the following:**
 - BUAD 6200 Corporate Finance
 - FINA 6130 Advanced Corporate Finance
 - FINA 6140 Investments and Security Analysis
 - FINA 6340 Derivative Securities

STRATEGIC MANAGERIAL ACCOUNTING AND OPERATIONS MANAGEMENT TRACK

- **MSA 4 Core Courses (12 hours) above required of all MSA students**
- **Accounting Electives (12 hours) – Choose 4 courses from the following:**
 - ACCT 6150 International Accounting and Taxation
 - ACCT 6310 Advanced Managerial Accounting
 - ACCT 6330 Advanced Topics in Accounting Information Systems
 - ACCT 6410 Governmental & Not-for-Profit*
 - ACCT 6430 Business Valuation
 - ACCT 6960 Independent Study In Accounting: Advanced CPA Studies
- **Business Electives (6 hours) – Choose 2 course from the following:**
 - BUAD 6200 Corporate Finance
 - BUAD 6600 Supply Chain Management
 - INFS 6150 Business Intelligence Management
 - OSCM 6680 Total Quality Management and SPC
 - OSCM 6690 Manufacturing Resources Management

Other UT graduate courses are allowed as electives with pre-approval from the MSA academic advisor. If a student takes one of the courses above at the undergraduate level (specifically ACCT 4130, ACCT 4250 and 4410), these courses may not be taken at the graduate level. This does not reduce the number of credit hours or courses required to earn the MSA degree. The student will select a different option with the Accounting Department Chair and MSA Program Adviser. Other courses from the College of Business and Innovation (or, in the case of a JD/MSA student, a course from the College of Law) may also be approved for the three areas above, with good cause shown, by the Accounting Department Chair and MSA Program Adviser.

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):

If a student can demonstrate that he/she has completed equivalent course work at the undergraduate level prior to admission to the M.S.A. program and has earned a grade of C (2.0) or better in the course(s), the corresponding course below may be waived. Undergraduate equivalents are in parentheses.

- ACCT 5000 Financial and Managerial Accounting (BUAD 2040 or ACTG 1040; and BUAD 2050 or ACTG 1050)
- ACCT 3110 External Financial Reporting I
- ACCT 3210 Individual Taxation
- ACCT 3310 Accounting Information Systems
- ACCT 3/5120 External Financial Reporting II (ACCT 5120)
- ACCT 3/5320 Internal Reporting (ACCT 5320)
- ACCT 4/5420 Auditing
- FINA 5210 Economics for Business Decisions (ECON 1150 and 1200)
- FINA 5310 Managerial Finance (BUAD 3040)
- OSCM 5510 Business Statistics with Computer Applications (BUAD 2060 or MATH 2600 or MATH 2630)

Students must have an average GPA of 3.0 or higher in the common body of knowledge courses in order to proceed into 6000 level accounting classes.

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. Within this broad field, students can specialize in either (i) operations and supply chain management or (ii) information systems. 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 that 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. Regardless of track, students must become experts in applying 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

Some knowledge of computer programming for IS-track candidates

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

Business Foundation Courses (19 hours)

- ACCT 5000 Financial & Managerial Accounting
- ECON 5810 Econometrics Models and Methods
- BUAD 6800 Information Technology and E-Business
- BUAD 6400 Results-Based Management
- MKTG 5410 Marketing Systems
- OSCM 5520 Analysis of Manufacturing and Service Systems

Ph.D. Program Curriculum

Quantitative and Research Methods: (18 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)

PLUS TWO FROM THE FOLLOWING

- RESM 6/8150 Structural Equation Modeling
- MFGM 8660 Qualitative Research Methodology
- MFGM 8640 Advanced Management Science
- MFGM 8650 Stochastic Modeling
- MFGM 8670 Special Topics in Research Methods

Major Field: Integrative Seminars: (9 hours)

- MFGM 8480 Management of Technology
- MFGM 8980 Special Topics Seminar
- INFS 8990 Integrative Seminar

Tracks: (15hours)

The students can choose **one** of the two tracks: 1) *Operations and Supply Chain Management*, or 2) *Information Systems*. These are graduate level courses and seminars.

Operations and Supply Chain Management Track (15 hours)

- MFGM 8890 Advanced Manufacturing Systems
- MFGM 8490 Supply Chain and E-Business Issues in Manufacturing
- MFGM 8910 Supply Chain and Technology Management Analytics
- OSCM 6/8680 Quality and Process Excellence
- OSCM 6/8690 Manufacturing Resources Management

Information Systems Track (15 hours)

- INFS 6/8560 Systems Analysis and Design
- INFS 6/8150 Business Intelligence Management
- INFS 6/8710 Management of Information Systems Security
- INFS 8760IS Research Seminar I
- INFS 8770IS Research Seminar II

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> .