ALFRED LERNER COLLEGE OF BUSINESS AND ECONOMICS

GRADUATE PROGRAMS

- M.B.A. Program
- Accounting and Management Information Systems
- Business Administration
- Economics

The mission of the Alfred Lerner College of Business and Economics is to foster scholarship and to offer distinctive, innovative educational opportunities related to the successful management and leadership of organizations operating in an environment of scarce resources, rapid change, global competition, and advances in technology.

The Alfred Lerner College of Business and Economics offers graduate degrees in these disciplines: Accounting, Management Information Systems, Business Administration (M.B.A.), Organizational Effectiveness, and Economics. The following dual master’s degree programs are offered: M.B.A./M.A.:Economics; M.B.A./M.S.:Information Systems & Technology Management; M.B.A./M.S.:Organizational Effectiveness, Development & Change; and M.B.A./M.S.:International Business. The latter degree is offered in conjunction with Groupe ESC Grenoble, France. Students may earn either a Masters in International Business (M.I.B.) or a Masters in Management (M.M.) in Grenoble and combine that with a University of Delaware M.B.A. An Executive M.B.A. is offered at the University’s Pennsylvania Avenue campus in Wilmington for experienced professionals. The Lerner College also offers a Ph.D. in Economics.

The M.B.A. program provides a highly select group of students with a relevant, advanced business management education. Coursework integrates the functional areas of business, while preparing graduates for positions of greater responsibility in corporations, small businesses, consulting firms, government, or non-profit organizations. All students are exposed to issues of leadership, teamwork, technology, globalization, and ethics, as well as the basic analytical skills required of every business leader. Students have the option of choosing areas of concentration. Small class sizes and intense interaction among students of diverse backgrounds and experience are hallmarks of the program. The Executive M.B.A. program provides an intensive and accelerated format for individuals with a record of successful professional experience.

The objective of the M.S. in Accounting program is to extend the education of qualified students into advanced study in each of the major areas of the field of accounting (financial, managerial, information systems, auditing, and taxation), as well as in the supporting fields of finance and quantitative methods. In taking students beyond the level of study offered by an undergraduate program in accounting, the M.S. provides additional preparation for careers in public accounting, industry, and government and establishes a foundation for further study at the Ph.D. level in preparation for an academic career.

The objective of the M.S. in Information Systems & Technology Management (IS&TM) is to produce students who possess the combination of management and technical skills needed to bring about the effective deployment and administration of information technology to achieve business success in today’s highly competitive global environment. The Lerner College also offers a dual degree M.B.A./M.S. in IS&TM.

The objective of the M.S. in Organizational Effectiveness, Development and Change (OEDC) is to develop the necessary skills for our graduates to be effective agents of change in business and corporate organizations. The student will learn the theory, methods, techniques and skills to influence change and develop businesses to maximize effectiveness. The program is grounded in theory and empirical evidence, focused on critical and analytical thinking and methods of planning and implementing strategies in today’s complex, dynamic and global business environment. The Lerner College also offers a dual degree M.B.A./M.S. in OEDC combining the specific focus of the M.S. in OEDC with the M.B.A. degree. This allows students to prepare themselves to better understand the breadth of business disciplines with the focus in organizational development and change.

The M.S. in Economics is focused on the growing application of analytical techniques and economic research in government and private industry. It is primarily oriented toward students pursuing a career in applied economics as well as providing an excellent foundation for further work in a Ph.D. program. An M.A. option in economics is also available. The Ph.D. in Economics builds upon the M.S. degree. This program develops quantitative skills required to conduct applied economic research. This program prepares graduates for careers in the public and private sectors as well as academics.

The Lerner College also participates in the Operations Research Program. A description of that program can be found under Agriculture and Natural Resources. For more information, please visit the Lerner College website at:

M.B.A. PROGRAM

Telephone: (302) 831-2221
E-mail: mbaprogram@udel.edu
http://www.lerner.udel.edu/mba

PROGRAM OVERVIEW

The Master of Business Administration (M.B.A.) program is
that subject area at the undergraduate level at an AACSB-accredited institution. Students in the M.B.A. programs (part-time and full-time) may waive up to 12 of the following courses:

- BUAD 880: Marketing Management
- BUAD 870: Managing Human Capital
- FINC 850: Financial Management
- BUAD 831: Operations Management and Management Science

**Core Courses (18 hours):**

- ECON 503: Economic Analysis for Business Policy
- ACCT 800: Financial Reporting and Analysis
- BUAD 831: Operations Management and Management Science
- FINC 850: Financial Management
- BUAD 870: Managing Human Capital
- BUAD 880: Marketing Management

- Students in the M.B.A. programs (part-time and full-time) may waive up to 12 of the 18 above core credit hours if they have completed two applicable courses in that subject area at the undergraduate level at an AACSB-accredited institution.

- Students must complete the 18 required courses. The remaining 6 required hours are elective courses.

**Program Overview**

The M.B.A. program is designed to be completed in 19 months for full-time students and 21 months for part-time students. The program provides a flexible curriculum that allows students to specialize in areas of interest.

**Requirements for Admission**

The M.B.A. program is highly selective and requires a combination of professional work experience, letters of recommendation, and an interview. Applicants are assessed based on their academic performance, work experience, and potential for success in the program.

**Accreditation**

The M.B.A. program is accredited by the AACSB International - The Association to Advance Collegiate Schools of Business. Students must meet the standards set by the AACSB to ensure the quality of the program.

**Concentrations and Specializations**

Students have the option to pursue a concentration in specific areas, such as marketing, human resources, or finance. Alternatively, they can choose to pursue a self-directed specialization, allowing for more flexibility in designing their coursework.

**Dual Degrees**

Students interested in a general-interest M.B.A. need not pursue a concentration or specialization and may select electives from a wide variety of academic interests.

**Elective Courses (18 hours):**

Eighteen hours of additional graduate-level coursework must be chosen in Business Administration, Finance, Economics, Accounting, Museum Studies, or other areas appropriate to the student's concentration, specialization, and/or academic or professional interests. At least one of these electives must have an international focus.

**Other Required Courses (12 hours):**

- ACCT 801: Management Control Systems and Information Technology
- BUAD 820: Data Analysis and Quality Control
- BUADB40: Current and Critical Issues in Ethics, the Domestic & Global Business Environment
- BUAD 890: Corporate Strategy

**Elective Courses (18 hours):**

Students interested in a general-interest M.B.A. need not pursue a concentration or specialization and may select electives from a wide variety of academic interests. Dual Degrees: There are many dual degrees options with the M.B.A., including M.B.A./M.A.: Economics, M.B.A./M.S.: Information Systems & Technology Management, M.B.A./M.S.: Organizational Effectiveness Development & Change, and an M.B.A./Master of International Business. Dual degrees generally require at least 60 graduate credits and follow a structured curriculum. Students interested in pursuing a dual degree should contact the M.B.A. Program Manager to discuss the specific courses required to complete the degrees.

**Electronic Communications Requirement:**

All M.B.A. students are provided with electronic addresses and mailboxes and are expected to utilize email, the Internet, and electronic scholarly resources on a regular basis. The M.B.A. program provides basic instruction in electronic communications for new students. Other instruction is available in short, non-credit classes that are offered by the University's Information Technologies staff, and the business reference librarian at Morris Library. Students wishing to use their private email MUST forward their University email accounts to this address. Electronic mail is the primary method of administrative information dissemination and students are responsible for monitoring their University email account.

**Accounting and Management Information Systems**

- http://www.lerner.udel.edu/accounting
- Faculty Listing: http://www.lerner.udel.edu/accounting/faculty.html

**M.S. in Accounting and M.S. in Information Systems & Technology Management**

**Program Overview**

The Department of Accounting and Management Information Systems offers programs leading to the Master of Science degree with a major in Accounting and a Master of Science degree with a specialization in Information Systems & Technology Management.
major in Information Systems & Technology Management (IS&TM). The objective of the M.S. in Accounting is to extend the education of qualified students into advanced study in each of the major areas of the field of accounting and information systems, as well as in the supporting fields of finance and quantitative methods. In taking the student beyond the level of study offered by an undergraduate program in accounting, the M.S. provides additional preparation for careers in public accounting, industry, and government, and establishes a foundation for further study at the Ph.D. level in preparation for an academic career. The objective of the M.S. in IS&TM is to produce students who possess the combination of management and technical skills needed to bring about the effective deployment and administration of information technology to achieve business success in today’s highly competitive global environment. Because of the combination, the M.S. in IS&TM is primarily designed for two types of students: those with a background in business who want to move into a more technology-oriented role in their organization, and those with a background in a technical field who want to move into an IT/management role in their organization. Examples of the type of students with technical background we attract include engineers, scientists, and those involved in biotechnology.

Students in the M.S. in Accounting may pursue either a full-time or a part-time course of study. Full-time students with an undergraduate accounting major from an accredited AACSB college should be able to complete the program within one calendar year. The M.S. in IS&TM is a part-time course of study, and students are expected to complete this degree program within two calendar years.

REQUIREMENTS FOR ADMISSION

Applicants must supply all information stated in the “Admission Information” chapter of this catalog. Admission to both of these graduate programs is selective and competitive based on the number of well-qualified applicants and the limits of available faculty and facilities. Those who meet stated minimum academic requirements are not guaranteed admission, nor are those who fail to meet those requirements necessarily precluded from admission if they offer other appropriate strengths.

Candidates for admission are invited to correspond with the Director of the M.S. program. Detailed brochures on these M.S. programs are available. As part of the admissions process for the M.S. in IS&TM, each student will meet with a faculty advisor who will evaluate the student’s background in both business and programming (including prior coursework and experience). Foundation course requirements will be based on this evaluation.

REQUIREMENTS FOR THE DEGREE

The M.S. in Accounting requires 30 hours of graduate credit which includes twelve credits of required accounting and twelve credits of required systems courses plus three credits of finance and three credits of statistics.

The M.S. program has as prerequisites the equivalent of four accounting courses required for an undergraduate accounting major as well as completion of courses meeting Association to Advance Collegiate Schools of Business (AACSB) common body of knowledge requirements. Thus, the M.S. is designed as a one-year, 30-hour graduate program beyond these prerequisites. Students admitted to the program without these prerequisites may complete this work while in the M.S. program. Normally, those holding an undergraduate business degree from an accredited AACSB college will have met the common body of knowledge requirements outside the area of accounting.

Graduate-level courses taken to fulfill the AACSB common body of knowledge will not count towards fulfilling the 30-hour requirement for the M.S. in Accounting.

The M.S. in IS&TM is a unique interdisciplinary program developed jointly by the Alfred Lerner College of Business and Economics and the Department of Electrical and Computer Engineering. Depending on the strength of their academic backgrounds, students must complete 36 to 42 credit hours to earn the M.S. degree. Students will acquire a solid understanding of both IT and the management processes needed to effectively manage in the corporate environment. Upon entering the program, each student will meet with a faculty advisor who will assess the strength of the student’s IT experience.

The M.S. in IS&TM program can be thought of as a series of five building blocks. The foundation block provides the fundamentals of business and programming. The next building block covers the core concepts of IT. The third (advanced) block builds on prior coursework, and the fourth block (electives) allows students to tailor the program to an area of interest or to gain practical experience in IT. Finally, the capstone block of courses draws from all preceding classes to complete the students’ experience.

BUSINESS ADMINISTRATION

http://www.learner.udel.edu/business/
Faculty Listing: http://www.learner.udel.edu/business/BUAD&Fs.html

M.S. IN ORGANIZATIONAL EFFECTIVENESS, DEVELOPMENT AND CHANGE

PROGRAM OVERVIEW

The Department of Business Administration offers a program leading to the Master of Science degree in Organizational Effectiveness, Development and Change (OEDC). Students in the M.S. in OEDC develop the necessary skills to be effective agents of change in business and corporate organizations. The student will learn the theory, methods, techniques and skills to influence change and develop businesses to maximize effectiveness. The program is grounded in theory and empirical evidence, focused on critical and analytical thinking and methods of planning and implementing strategies in today’s complex, dynamic and global business environment.

The majority of students are expected to be mid-career professionals in business and corporate functions. Most students are expected to have had some supervisory experience and be preparing for positions in increasingly responsible middle to upper management and leadership. Additionally, some students may be preparing for Doctoral level studies in business, management, or organizational behavior/development, or preparing for careers as internal or external organizational consultants. Students preparing for doctoral work should take a research focus with thesis option.

Middle and upper management focuses on planning and implementing policies and programs to accomplish strategic goals within the firm. As such our program focuses on translating strategic goals into operational plans and working with and through people to get those plans adopted and implemented. Personal development focuses on formation of the self as change agent. The change process depends on working with and through others, thus there is a heavy emphasis on leadership, influence, interpersonal, team and inter-group collaboration skills.

REQUIREMENTS FOR ADMISSION

Qualified applicants for M.S. admission must:
- Hold the equivalent of a 4-year U.S. Bachelor's Degree from an accredited college or university.
- Submit a Graduate Admission Application and one official transcript of all previous academic work.
- Submit official Graduate Records Examination (GRE) or the Graduate Management Admissions Test (GMAT).
Admission decisions are based upon a number of factors, including:

- Undergraduate grade point index
- GMAT or GRE scores
- Previous graduate study
- Work experience
- 2 Letters of recommendation

Application essays:
- What are your vocational objectives and how will your proposed plan of graduate study relate to them?
- Describe a particularly challenging experience, and how you handled that experience.
- Are there any special circumstances related to your academic record that you think we should consider?
- Interview

Students may apply and be admitted on a part- or a full-time basis.

Candidates for admission need not have majored in any specific undergraduate field; however, students are assumed to possess basic skills in written and oral communication, mathematics (normally one year of at least pre-calculus at the college level), and computer usage. Students deficient in any of these areas may be advised to enroll in appropriate courses to improve their skills.

Admission to the graduate program is competitive. Those who meet stated requirements are not guaranteed admission, nor are those who fail to meet all of those requirements necessarily precluded from admission if they offer other appropriate strengths.

Applications from those who wish to be considered for financial aid must be submitted by February 1st. Early application submission is strongly encouraged although M.S. program admissions occur on a rolling basis. However, for optimal consideration, part-time students should submit applications by May 1 for Fall Semester admission, and by November 1 for Spring Semester admission.

Note: Applications can be submitted before taking the GRE or GMAT. Indicate on your application the scheduled date of your GRE or GMAT exam. However, late exam submission will delay application processing and the admission decision.

Every Applicant who has accepted admission must submit a $200 non-refundable deposit by the deadline stated in the acceptance letter to secure a place in the M.S. in OEDC Program. The tuition rate per credit for courses in the M.S. in OEDC program is equivalent to the on-campus Professional M.B.A. program.

REQUIREMENTS FOR THE DEGREE

The M.S. program is a 36 credit program with 24 credits of required coursework, 6-credits of required Thesis or Professional Project, and 6 credits of electives. The curriculum is scheduled to accommodate the working professional with most courses in the evenings and 1 credit skills modules offered in condensed time periods. Electives provide options among several courses taught either within the college or across campus and may include specialized modules delivered by practitioners on an adjunct basis.

Students have the option of completing a traditional research thesis or a professional project. Students using the program for professional development should conduct the professional project. Students who may be using our program as a stepping stone toward Ph.D. admissions should take statistics or research methods courses for their electives and should complete the research thesis. Students must elect the thesis or professional project option prior to selecting their electives and should do so in consultation with the Program Advisor. Students must follow the prerequisites listed in the university catalogue in planning the order in which to take courses. BUAD870 is a prerequisite for many of the courses in the program, so it must be taken early in the program.

Program Requirements:

- BUAD 800 Strategic Thinking for the Executive Leader 3
- BUAD 807 Interpersonal Skills: Team Development 1
- BUAD 808 Interpersonal Skills: Leading Change 1
- BUAD 809 Interpersonal Skills: Negotiation and Conflict Resolution 1
- BUAD 820 Data Analysis and Quality Management 3
- BUAD 840 Ethical Issues in Domestic and Global Environments 3
- BUAD 870 Understanding People in Organizations 3
- BUAD 872 Organizational Development and Change 3
- BUAD 875 Strategic Human Resources 3
- BUAD 878 Leadership in International Business Cultures 3

Total Required Course Credits 24

Electives (see below) 6

BUAD 898 Professional Project Seminar 6
BUAD 869 Thesis 6

Total Program Credits 36

Six credits of elective course selection should be made under consultation with the Program Advisor. Students planning to go on for a Ph.D. degree should elect additional research methods or statistics courses. Students in a human resource/management development role may want to elect courses on curriculum design and evaluation in the School of Education. Students interested in increasing their general business acumen may elect accounting, finance or economics courses. The Program Advisor will review the student’s academic background and career objectives in considering any variance to the program on an individual case basis.

PROFESSIONAL PROJECT OR THESIS OPTIONS

Students should choose the professional project or thesis option by the time they complete 15 credits in the program. Because the thesis option should be combined with research methods and/or statistics electives, it is unlikely that students would switch to the thesis option late in the program. Students may switch from the thesis to professional project option, however credits taken in the thesis cannot count toward the professional project and professional project credits cannot count toward the thesis. Students will declare their option with the program advisor and should discuss any changes in advance with the program advisor.

Professional Project Option. The professional project is intended to demonstrate proficiency in implementing organizational change through design, conduct and evaluation of an organizational change project in an organizational setting. Students electing the professional project option must identify their own site in which to conduct the professional project. Faculty will work with the student to identify and specify the professional project, but it is ultimately the student’s responsibility to identify the site for the professional project. The student must identify a faculty member who will supervise the project. A second reader will be selected in collaboration with the project supervisor. The second reader may be another faculty member or may be a professional with master’s
preparation and significant relevant experience in the field. The culmination of the project will be a written and oral presentation to be scheduled in coordination with the professional project supervisor and will be open to other faculty and students in the program. The grade for the Professional Project is assigned in the semester the project is completed.

**Thesis Option.** Students who elect to write a research thesis must identify a faculty member who is willing to supervise the thesis. A second reader will be selected in collaboration with the thesis supervisor. The research thesis will be a scientific study of a topic related to the degree. The grade will be assigned in the semester in which the thesis is completed. The thesis must be presented in a departmental research colloquium and a version of the thesis is provided. The dates for completion of the thesis follow the University of Delaware guidelines for graduation.

**COMPREHENSIVE EXAMINATION**

**Purpose:** To assess the students’ mastery and integration of key concepts across the curriculum.

**Composition:** Students will sit for and write responses to several questions prepared by faculty teaching in the program. Questions are designed to assess skills in each competency area identified by the program faculty. Students will be provided a reading list and study guide during the semester preceding the exam.

**Timing:** The exam will be administered twice annually (at the beginning of the spring and fall semesters). Students should plan to sit for the exam upon completing the required courses for the program. Students must sit for and pass the comprehensive exam prior to defending their Thesis or Professional Project.

**Grading:** The exam will be graded by the faculty providing the questions. The exam is graded pass/fail. The Program Director will combine the feedback, submit the result to the Graduate Office, and provided feedback to the student on any areas they need to improve. Students must pass each competency area to pass the exam. Students failing the exam will have one chance to retake the exam. Students failing both settings will be recommended for dismissal from the program for failure to advance.

**PROGRAM ADMINISTRATION**

Up to nine semester hours of graduate credit earned prior to matriculation into the M.S. program at another institution and not previously counted toward another degree may be accepted toward the University of Delaware M.S. degree. The course(s) must have been completed:
- with grades of B or better
- within five years of the effective date of the requested transfer

Normally, those credits will become eligible for transfer only after the candidate has completed at least nine credit hours as a matriculated M.S. Program student at the University of Delaware. To begin the process, the student must submit to the Program Advisor a written request for credit evaluation with course descriptions and/or syllabi of courses to be considered for transfer. Courses transferred from other universities count for credits but do not affect the program grade point average.

A graduate student must maintain a minimum 3.0 grade point index to remain a student in good standing and earn a 3.0 average in all required courses to be eligible for the M.S. degree. No grade below a C- may be counted toward the course requirements for the degree.

All examinations, thesis and professional project reports and oral presentations are in English. Proficiency in both written and oral English is required for progress and completion of the M.S. program. Normally part-time students will complete 6-7 credits per semester and can complete the program in just over 2 years. Full time students generally take a minimum of 12 credits per semester.

Students must complete their degree within the five year time limit established by the University. The Office of Graduate Studies provides guidelines governing possible extensions in cases of special or extenuating circumstances.

Students must maintain continuous enrollment in every regular semester (fall and spring) throughout their program. This can be accomplished by registering for thesis or professional project credit during the time the thesis or project is underway, or by registering for sustaining status. See the university policy on sustaining status at http://www.udel.edu/gradoffice/current/policysustaining.html

**M.B.A./M.S. IN ORGANIZATIONAL EFFECTIVENESS, DEVELOPMENT AND CHANGE DUAL DEGREE PROGRAM**

**PROGRAM OVERVIEW**

The Department of Business Administration in cooperation with the M.B.A. program offers a M.B.A./M.S. in Organizational Effectiveness, Development & Change (OEDC) dual degree option. The dual degree option allows the student to earn both the M.B.A. degree and the M.S. in OEDC with a total of 60 credits including 54 credits of course work and 6 credits of Professional Project or Thesis. The M.B.A./M.S. in OEDC combines the required courses in the M.B.A. program with the required and elective courses in the M.S. in OEDC plus the professional project or thesis. This program is jointly administered by the Alfred Lerner College of Business and Economics Graduate and Executive Programs office and the Department of Business Administration.

**REQUIREMENTS FOR ADMISSION**

Students desiring to pursue the joint M.B.A./M.S. in OEDC must apply directly to the degree program and must meet the admissions requirements of both the M.B.A. and M.S. in OEDC programs (See the University catalog for those requirements). The admissions directors for each program will evaluate the application separately and will apply the same criteria as specified in their respective programs. The prospective student is encouraged to see the admissions policies for both programs in the graduate catalog. Whereas the M.S. in OEDC program accepts both the GMAT and GRE exams, scores for the GMAT will be accepted by both programs.

The M.B.A./M.S. in OEDC is a joint degree program. As such, the joint programs must be completed and the dual degree is conferred simultaneously. Students admitted to the M.B.A./M.S. joint degree program who later decide they only want to complete one of the degrees must apply separately to the desired program for admission as a candidate in that program. Students who complete the single degree (M.B.A. or M.S. in OEDC) may not at a later date be admitted to the dual degree program. In such case the student would be required to complete all requirements for the second degree. A student who is initially admitted to either degree and who decides to pursue the dual degree must apply for change of degree to the M.B.A./M.S. dual degree prior to receiving the first degree and must complete the requirements for the dual degree prior to any degree being granted.

**REQUIREMENTS FOR THE DUAL DEGREE**

The M.B.A./M.S. in OEDC program combines the require courses for the M.B.A. program with the additional required courses of the M.S. in OEDC program. The M.B.A. core and required courses make up 30 credits of the program. An additional 21 credits of courses from the M.S. in OEDC, including 6 credits of thesis or professional project are required. The total 60 credit program is completed with the addition of 9 elective credits (see table below).
Program Requirements:

**M.B.A. Core & Required Courses**
- ECON 503 Economic Analysis for Business Policy ........................................... 3
- ACCT 800 Management Control Systems ......................................................... 3
- FINC 850 Financial Management ........................................................................ 3
- BUAD 880 Business and Economic Development ............................................ 3
- BUAD 890 Corporate Strategy ........................................................................... 3

**M.S. Required Courses**
- BUAD 800 Strategic Thinking for the Executive Leader .................................... 3
- BUAD 807 Team Development Skills .................................................................. 3
- BUAD 809 Negotiation Skills ............................................................................ 3
- BUAD 870 Understanding People in Organizations ........................................ 3
- BUAD 878 Leadership in International Business Cultures ................................ 3
- BUAD 869 or BUAD 868 Thesis or Professional Project .................................... 6

Total Required Course Credits ......................................................................... 51

**TOTAL DUAL DEGREE CREDITS ................................................................. 60**
* Serves both M.B.A. and M.S. program required courses.
** Required courses cannot count toward a concentration or specialization in the M.B.A. program.

M.B.A./M.S. in OEDC students must complete a Professional Project or Thesis and complete the comprehensive examination under the same rules as apply to the M.S. in OEDC program. Students choosing the Thesis option should take additional statistics or research methods courses to support the Thesis research.

M.B.A./M.S. in OEDC students must complete a Professional Project or Thesis and complete the comprehensive examination under the same rules as apply to the M.S. in OEDC program. Students choosing the Thesis option should take additional statistics or research methods courses to support the Thesis research.

**Requirements For Admission**
Prospective students should consult the Graduate Admissions chapter of this catalog for admission procedures. The dates for application submission are July 1 and December 1 for Fall and Spring admission respectively. Students seeking financial aid should complete their applications by February 15 for September enrollment and by November 15 for February enrollment. Admission to graduate programs in the Department of Economics is selective and competitive based on the number of well-qualified applicants and the limits of available faculty and facilities. Those who meet stated minimum academic requirements are not guaranteed admission; nor are those who fail to meet those requirements necessarily precluded from admission if they offer other appropriate strengths.

**Master of Arts, Master of Science, and Joint Master of Arts and Master of Business Administration Degrees.** Applicants are expected to have at least a 2.5 (on a 4-point scale) undergraduate grade-point average and at least a 3.0 in their major. In addition, applicants should have a combined score of at least 1050 (verbal plus quantitative only) on the Graduate Record Examination Aptitude Test or score at or above the 55th percentile in the Graduate Management Admission Test. Foreign students must achieve a score of at least 260 on the TOEFL. While graduate courses do not require extensive prerequisites, students need some background in economics, calculus, and statistics. Applicants for the M.B.A./M.A. dual degree must also meet the M.B.A. program admission criteria.

**Master of Arts in Economics and Entrepreneurship for Educators.** The program is open to educators who: (1) meet admission requirements of the Office of Graduate Studies of the University of Delaware (official transcripts of all undergraduate work are required), (2) have completed a minimum of three semester hours in economics, (3) hold a current teaching certificate and have a minimum of three years of experience, and (4) are nominated by the Council or Center Director for Economic Education in their geographic region.

**Doctoral Degree.** For admission to the Ph.D. program, students must have demonstrated a high level of potential to do independent research at the doctoral level. Students are expected to score at least 1100 on the combined verbal and quantitative portions of the GRE exam or the equivalent on the GMAT. In cases where English is a second language, applicants are expected to score at least 250 on the TOEFL exam. A grade point average of at least 3.5 in graduate economics courses is expected with emphasis placed on core courses and on course selection. Attention will also be given to graduate courses that the applicant has taken in related disciplines.
Demonstrated potential for doctoral-level research is required; for example, a master’s thesis or research paper and letters of recommendation that address this point specifically may be submitted. All applicants must submit at least three letters of recommendation from economics faculty who can comment explicitly upon the applicant’s ability to do doctoral-level work, including doctoral-level research and writing. Continuation in the Ph.D. program requires a master’s degree in economics from the University of Delaware, or its equivalent, as determined by the Department’s Graduate Committee. An M.B.A. degree is not considered to be equivalent to a master’s degree in economics. Each student’s requirements for satisfying the master’s equivalency will be established by the Graduate Committee. Qualified applicants who have not met the master’s equivalency requirement at the time of admission are required to do so while at the University of Delaware in order to continue in the Ph.D. program.

REQUIREMENTS FOR THE DEGREE

All degrees except the M.A. degree for teachers require a written comprehensive examination, participation in a faculty-student research project or other relevant research experience, and regular attendance at departmental seminars and colloquia. Students may satisfy some elective course requirements for all degrees with a variety of graduate-level courses from other disciplines.

Master of Arts. The M.A. degree requires 30 credit hours of graduate work, nine of which are in three required courses: microeconomics, macroeconomics, and econometric theory. Students must also demonstrate a capacity for joint economic research by completing a 6-credit thesis or a 3-credit research project.

Master of Arts in Economics and Entrepreneurship for Educators. The M.A. degree requires 30 credit hours of graduate work, 18 of which are in five required areas: microeconomics, macroeconomics, monetary and international trade theories, contemporary economic issues, and curriculum strategies. In addition, candidates must design and implement an economic education program. A public policy or research paper is also required.

Master of Science. The M.S. degree requires 33 credit hours of graduate work, 15 of which are in five required courses: microeconomics, macroeconomics, econometric theory, econometrics seminar, and a fifth course representing an approved quantitative course from the graduate curriculum. In addition, the M.S. program requires the completion of a 6-credit thesis.

Joint Master of Arts and Master of Business Administration. The M.A./M.B.A. degree requires 57 credit hours of graduate work in economics and business. Students must meet the core requirements for both the M.A. and M.B.A. programs. By allowing elective courses to count for both programs, the combined M.A./M.B.A. degree represents a significant savings over taking two separate degrees.

Doctor of Philosophy. Doctoral students must complete a minimum of eight additional approved graduate courses beyond the master’s degree, five of which are required: Advanced Microeconomic Theory, Advanced Macroeconomic Theory, Advanced Topics in Econometrics, and Time-series Econometrics and Mathematical Methods for Economics. Students who have taken a mathematical economics course as part of their master’s equivalency may waive the mathematical methods course. The remaining three courses must satisfy the field requirement. The Department maintains a current list of course groupings that satisfy the field requirement. Students must pass Ph.D. preliminary examinations in these three areas: microeconomic theory, macroeconomic theory, and the student’s major field of study. The microeconomic theory and macroeconomic theory examinations must initially be taken at the same time. The field examination may be taken separately. Students normally take the microeconomic and macroeconomic preliminary exams following the year in which these courses are completed and take the field examination after the completion of all courses. Each student must pass all three preliminary examinations. Students who do not pass an examination on the first attempt may retake it two additional times. Students choose a thesis committee consisting of a dissertation adviser, two faculty members from the Department of Economics, and a faculty member from a department other than the Department of Economics. To be considered a doctoral candidate, a student must successfully defend a proposal outlining the nature of the work to be done for the dissertation. The dissertation must represent a significant advance in the body of economic knowledge and must be defended before the student’s dissertation committee and the University Community.