DOCTOR OF PHILOSOPHY WITH A MAJOR IN MANAGEMENT

The PhD program in Management is designed to produce graduates who can make scholarly contributions to their chosen fields. Most graduates undertake careers as researchers, scholars, and teachers, in academic environments.

The doctoral program in the Scheller College of Business is intended for full-time students who will complete their entire doctoral program prior to leaving campus. Full-time residence in or near Atlanta is expected. The doctoral program is strongly research-oriented and emphasizes early and effective involvement in research, with students experiencing considerable personal attention and close interaction with faculty. The PhD program complements and reflects the technological emphasis of the Institute and places considerable weight on learning outside the classroom. The tutorial model is the basic educational approach employed throughout the program.

Applicants to the doctoral program in management should note that supplementary application materials are required by the College of Business in addition to those required by Georgia Tech's Office of Graduate Admissions and Enrollment Services.

Applications and viewbooks are available online at https://www.scheller.gatech.edu/degree-programs/phd

For more information, call the program office at 404.385.3896 or send an email to renee.jamieson@scheller.gatech.edu

All PhD programs must incorporate a standard set of Requirements for the Doctoral Degree.

Requirements

The central goal of the PhD program is to train students to perform original, independent research. The most important part of the curriculum is the successful defense of a PhD Dissertation, which demonstrates this research ability. The academic requirements are designed in service of this goal.

The curriculum for the PhD in Management offers seven concentration areas: Accounting, Finance, Marketing, Information Technology Management, Operations Management, Organizational Behavior, and Strategy & Innovation.

Summary of General Requirements for a PhD in Management

- Core curriculum courses or approved alternatives. Management students will be required to complete foundational coursework in their assigned area.
- Electives
- Responsible Conduct of Research (RCR) (1 course, 1 hour, pass/ fail). Georgia Tech requires that all PhD students complete an RCR requirement that consists of an online component and in-person training. The online component is completed during the student's first semester enrolled at Georgia Tech. The in-person training is satisfied by taking PHIL 6000 or their associated academic program's in-house RCR course.

- Qualifying examination (1 course, 3 hours). This consists of a one-semester independent literature review followed by an oral examination.
- · Doctoral minor (2 courses, 6 hours).
- Research Proposal. The purpose of the proposal is to give the faculty an opportunity to give feedback on the student's research direction, and to make sure they are developing into able communicators.
- · PhD Dissertation.
- We require all students to teach a minimum of two courses during their time in the PhD program. A student must take and successfully complete MGT 7610 prior to their first teaching assignment.
- · The individual requirements of each area are listed below.

Qualifying Examination

The student will be examined for knowledge in his/her field. The exam will be written and with the possibility of an additional oral component. The exam should be comprehensive in the student's field and may include a section on research methodology and quantitative methods.

Minor

These courses are in addition to the other core and elective requirements. The courses for the minor should form a cohesive program of study, outside the area of ML, that is approved by the Faculty Advisory Committee. Typical programs will consist of two courses from the same school (any school at the Institute) or two courses from the same elective area.

Dissertation Proposal

The student will present a dissertation project proposal to a Thesis Advisory Committee

consisting of at least three persons, one of whom is the Thesis Advisor. The Thesis Advisory Committee provides advice and guidance during development of the research topic and conduct of the research and is charged with approving the thesis when the research is completed and presented as the doctoral thesis. There should be a written proposal to be approved by the thesis committee at least one semester before the defense. If the student pass and has completed all other requirements, he/she will be considered a "candidate" for the PhD degree. You will submit the *Request for Admission to PhD Candidacy* form.

Doctoral Dissertation

The primary requirement of the PhD student is to do original and substantial research. This research is reported for review in the PhD dissertation, and presented at the final defense. When the Thesis Advisory Committee considers the thesis to be satisfactory, a recommendation

for a Final Doctoral Examination Committee is made by the student and the Thesis Advisory Committee. The Final Doctoral Examination Committee consists of at least five individuals. At least one member of the Final Doctoral Examination Committee must be from outside the College of Business. According to Institute rules, members of the Thesis Advisory Committee must be members of the Final Doctoral Examination Committee. Dissertation research should be of sufficient quality and scope that it is publishable in refereed journals in the student's field. The candidate will make an oral presentation of the project and its findings in a colloquium open to the public. You will submit the *Certificate of Thesis*

Approval for Doctoral Students form when you successfully defend your dissertation.

| Code | Title | Credit Hours |
|--------------------|--|-----------------|
| Accounting | | |
| Seminar requ | irements | 12 |
| MGT 7601 | Financial Accounting & Reporting Research Seminar | 3 |
| MGT 7602 | Management Accounting Research Seminar | 3 |
| MGT 7603 | PhD Seminar in Auditing Research | 3 |
| MGT 7604 | Seminar in Modern Capital Markets Research | 3 |
| Research Me | thods | 15 |
| ECON 6140 | Econometrics I | 3 |
| ECON 6160 | Econometrics II | 3 |
| ECON 7004 | Mathematics for Economists | 3 |
| ECON 7012 | Microeconomic Theory I | 3 |
| PSYC 6018 | Principles of Research Design | 3 |
| PSYC 6019 | Statistical Analysis of Psychological Data I | 5 |
| PSYC 6020 | Statistical Analysis of Psychological Data II | 5 |
| PSYC 7301 | Introduction to Multivariate Statistics | 3 |
| PUBP 6116 | Microeconomics for Policy Analysis | 3 |
| PUBP 8200 | Advanced Research Methods I | 3 |
| PUBP 8205 | Advanced Research Methods II | 3 |
| Independent | Study and Other Selected Courses ¹ | |
| Minor ² | | 6 |

- A student should select independent study and other courses (MGT 8803 and 8903 PhD courses) to support his/her career objectives. Typically, a student should register for an independent study course with a particular faculty while undertaking research that involves direct and substantial guidance and interaction from that faculty. In addition, a student may take an independent study course in support of his/her research interests in other units. The particular set of courses chosen in this category should be determined jointly by the student and the major advisor or PhD coordinator.
- 2 Students must complete 6 credit hours in one of two possible minors:
 - · Minor in Psychology
 - · Minor in Economics

| Code | Title | Credit Hours |
|--------------|---|-----------------|
| Finance | | |
| Seminar Requ | uirements ¹ | |
| MGT 8803 | Special Topics in Management (Financial Theory) | 3 |
| MGT 8803 | Special Topics in Management (Corporate Finance) | 3 |
| MGT 8803 | Special Topics in Management (Investment) | 3 |
| MGT 8803 | Special Topics in Management (International Finance) | 3 |
| MGT 8803 | Special Topics in Management (Empirical Methods in Finance) | 3 |
| MGT 8803 | Special Topics in Management (Corporate Restructuring) | 3 |

| MGT 8803 | Special Topics in Management (Financial Institutions) | 3 |
|--------------------|---|----|
| MGT 8803 | Special Topics in Management (Topics in Finance) | 3 |
| MGT 7060 | Theory of Finance | 3 |
| Research Met | hods Requirements | 12 |
| ISYE 6401 | Statistical Modeling and Design of Experiments | 3 |
| ISYE 6411 | Fundamentals of Statistics with Applications | 3 |
| ISYE 6402 | Time Series Analysis | 3 |
| ISYE 6664 | Stochastic Optimization | 3 |
| ISYE 6739 | Basic Statistical Methods | 3 |
| ISYE 6761 | Stochastic Processes I | 3 |
| PSYC 7301 | Introduction to Multivariate Statistics | 3 |
| PSYC 7302 | Structural Equation Modeling | 3 |
| ECON 6161 | Econometric Modeling and Forecasting | 3 |
| Finance Gradu | uate Electives ² | |
| MGT 6060 | Financial Management | 3 |
| MGT 6066 | Mergers and Acquisitions | 3 |
| MGT 6070 | International Finance | 3 |
| MGT 6080 | Investments | 3 |
| MGT 6081 | Derivative Securities | 3 |
| MGT 6090 | Management of Financial Institutions | 3 |
| Graduate Eco | nomics Courses ³ | |
| ECON 7012 | Microeconomic Theory I | 3 |
| ECON 7022 | Econometrics I | 3 |
| In Addition 4 | | |
| ECON 7013 | Microeconomic Theory II | 3 |
| ECON 7023 | Econometrics II | 3 |
| ECON 6105 | Macroeconomics | 3 |
| Independent S | Study and Other Selected Courses ⁵ | |
| Minor ⁶ | | 6 |

- Finance Doctoral Seminars: Students are required to take at least four doctoral level seminars for letter grade, earning B or better. Generally, students are expected to take two doctoral seminars a year, with four seminars courses completed by the end of the second year.
- Students with an insufficient background in finance and business may take the following elective finance courses for credit. In general, students should not take more than four of the courses. A grade of B or better is required for each course taken.
- Students are required to take the following course for credits and earn a grade of B or better in the course.
- 4 students are required to take at least one of the following courses for credits, earning a grade of B or better
- A student should select independent study and other courses to support his/her career objectives. Typically, a student should register for an independent study course with a particular faculty while undertaking research that involves direct and substantial guidance and interaction from that faculty. In addition, a student may take an independent study course in support of his/her research interests in other units. The particular set of courses chosen in this category should be determined jointly by the student, the advisor, and the PhD coordinator.
- Students must complete 6 credit hours in one of the possible minors below:

- · Minor in Economics
- · Minor in CS/CSE
- · Minor in Organizational Behavior
- · Minor in Industrial and Systems Engineering
- · Minor in Accounting

| Code | Title | Credit Hours |
|----------------------|--|-----------------|
| Information T | echnology Management | |
| Seminar Requ | uirements | |
| MGT 7609 | Observational Studies in IS | 4.5 |
| MGT 7606 | Analytical Modeling Foundations for IS | 1.5 |
| MGT 7608 | Experimental Research in Information Systems | 1.5 |
| MGT 7607 | Economics of Artificial Intelligence, and Machine Learning | 1.5 |
| MGT 8803 | Special Topics in Management (Research) | 1.5 |
| Select one: | | 1.5 |
| MGT 7605 | Advanced Empirical Methods for Information Systems | 1.5 |
| MGT 8803 | Special Topics in Management (Personalization and Deep Learning) | 3 |
| Additional Co | ourse Requirements | 12 |
| ECON 7004 | Mathematics for Economists | 3 |
| CS 7641 | Machine Learning | 3 |
| At least one: | | |
| ECON 7012 | Microeconomic Theory I | 3 |
| ISYE 6501 | Intro Analytics Modeling | 3 |
| At least one: | | |
| ECON 7022 | Econometrics I | 3 |
| PSYC 7301 | Introduction to Multivariate Statistics | 3 |
| ISYE 6414 | Statistical Modeling and Regression Analysis | 3 |
| Independent | Study and Other Selected Courses ¹ | |
| Minor | | 6 |

A student should select independent study and other courses to support his/her career objectives. Typically, a student should register for an independent study course with a particular faculty while undertaking research that involves direct and substantial guidance and interaction from that faculty. In addition, a student may take an independent study course in support of his/her research interests in other units. The particular set of courses chosen in this category should be determined jointly by the student, the advisor, and the PhD coordinator.

| Code | Title | Credit Hours |
|--------------|---|-----------------|
| Marketing | | |
| Seminar Requ | irements ¹ | |
| MGT 8803 | Special Topics in Management (Consumer Behavior) | 3 |
| MGT 8803 | Special Topics in Management (Empirical Models) | 3 |
| MGT 8803 | Special Topics in Management (Marketing Strategy) | 3 |

| MGT 8803 | Special Topics in Management (Theory Construction) | 3 |
|---------------|--|---|
| Research Me | thods Requirements ² | |
| ISYE 6414 | Statistical Modeling and Regression Analysis | 3 |
| ISYE 6413 | Design and Analysis of Experiments | 3 |
| PSYC 7301 | Introduction to Multivariate Statistics | 3 |
| or ISYE 74 | 0 Multivariate Data Analysis | |
| MGT 7102 | Organization Behavior Research Methods | 3 |
| or PSYC 60 | DIPPrinciples of Research Design | |
| or PSYC 80 | D1SDeminar in Cognitive Psychology | |
| | 12Research Methods | |
| or ISYE 67 | 3®asic Statistical Methods | |
| Depth Course | es ³ | |
| PSYC 6011 | Cognitive Psychology | 3 |
| PSYC 6012 | Social Psychology | 3 |
| PSYC 6019 | Statistical Analysis of Psychological Data I | 5 |
| PSYC 6795 | Introduction to Cognitive Science | 3 |
| ISYE 6401 | Statistical Modeling and Design of | 3 |
| | Experiments | |
| ISYE 6411 | Fundamentals of Statistics with Applications | 3 |
| ISYE 6739 | Basic Statistical Methods | 3 |
| PSYC 6012 | Social Psychology | 3 |
| MGT 7064 | Microeconomics Theory for Management | 3 |
| ISYE 6420 | Introduction to Theory and Practice of | 3 |
| | Bayesian Statistics | |
| PSYC 7201 | Industrial/Organizational Psychology | 3 |
| PSYC 8060 | Seminar in Quantitative Psychology | 3 |
| MGT 7105 | Individual Behavior in Organizations | 3 |
| MGT 7107 | Organizational Theory | 3 |
| MGT 7400 | PhD Strategic Management Research I | 3 |
| MGT 7064 | Microeconomics Theory for Management | 3 |
| ECON 6161 | Econometric Modeling and Forecasting | 3 |
| Recommende | ed Courses for Strategy Track ⁴ | |
| PSYC 6012 | Social Psychology | 3 |
| MGT 7064 | Microeconomics Theory for Management | 3 |
| HS 8813 | Special Topics | 3 |
| ISYE 6420 | Introduction to Theory and Practice of | 3 |
| | Bayesian Statistics | |
| PSYC 7201 | Industrial/Organizational Psychology | 3 |
| PSYC 8060 | Seminar in Quantitative Psychology | 3 |
| MGT 7105 | Individual Behavior in Organizations | 3 |
| PSYC 7303 | Psychometric Theory | 3 |
| MGT 7107 | Organizational Theory | 3 |
| MGT 7400 | PhD Strategic Management Research I | 3 |
| Recommende | ed Courses for Strategy Track ⁵ | |
| MGT 7064 | Microeconomics Theory for Management | 3 |
| ECON 6162 | Discrete Choice Econometrics | 3 |
| ECON 6161 | Econometric Modeling and Forecasting | 3 |
| Recommende | ed Courses for All Tracks ⁶ | |
| Additional Co | ourses (Methods) ⁷ | |
| PSYC 8050 | Seminar in Industrial/Organizational Psychology | 3 |
| ISYE 6404 | Nonparametric Data Analysis | 3 |
| | | |

| ISYE 7400 | Advanced Design of Experiments | 3 |
|----------------------|---|---|
| ISYE 7401 | Advanced Statistical Modeling | 3 |
| ISYE 7441 | Linear Statistical Models I | 3 |
| MATH 4262 | Mathematical Statistics II | 3 |
| PUBP 8200 | Advanced Research Methods I | 3 |
| PUBP 8205 | Advanced Research Methods II | 3 |
| Additional Co | urses (Substantive) ⁸ | |
| MGT 7107 | Organizational Theory | 3 |
| MGT 7400 | PhD Strategic Management Research I | 3 |
| MGT 8803 | Special Topics in Management | 3 |
| PSYC 6013 | Biopsychology | 3 |
| PSYC 6014 | Sensation and Perception | 3 |
| PSYC 6021 | Personality Theories | 3 |
| PSYC 7203 | Motivation and Job Attitudes | 3 |
| PSYC 7790 | Cognitive Modeling | 4 |
| PSYC 8000 | Seminar in Experimental Psychology | 3 |
| PSYC 8010 | Seminar in Cognitive Psychology | 3 |
| PSYC 8060 | Seminar in Quantitative Psychology | 3 |
| MATH 6338 | Real Analysis II | 3 |
| Independent S | Study and Other Selected Courses ⁸ | |
| Minor | | 6 |

- · Consumer Behavior (at Georgia Tech or Emory)
 - · Empirical Models (at Georgia Tech or Emory)
 - Marketing Strategy (at Georgia Tech or Emory)
 - Theory Construction (at Georgia Tech)
- ISYE 6414 Statistical Modeling and Regression Analysis
 - ISYE 6413 Design and Analysis of Experiments or PSYC 504 Experimental Analysis of Behavior (Emory)
 - PSYC 7301 Introduction to Multivariate Statistics or ISYE 7405 (Multivariate Data Analysis) or equivalent course
 - · MGT 7102 Organizational Behavior Research Methods or PSYC 6018 Research Design or PSYC 8010 Research Methods in Psychology (GA State) or ECON 6121 Research Methods or ISYE 6739 Statistical Methods or BUS 701 Survey of Research Methods (Emory)
- · 8 must be completed
 - The following are "recommended" and "additional" depth courses for students in different tracks.
 - · Recommended Courses for Consumer Behavior Track:
 - · PSYC 505 Core Seminar in Perceptual Cognition (Emory)
 - PSYC 507 Core Seminar in Knowledge and Conceptual Processes (Emory)
 - · PSYC 770 Core Seminar in Emotion and Social Cognition
 - PSYC 770 Core Seminar in Memory (Emory)
 - · or any of the above list
- MK 9200 Structural Equations Modeling (GA State)
 - ECON 8760 Advanced Econometrics (GA State)
 - · BUS 742 Perspectives on Marketing Strategy II (Emory)
 - · MK 8710 Customer Relationship Management (GA State)
 - · PSYC 533 Structural Aspects of Social Interaction (GA State)

- Students are strongly encouraged to take the core econometrics and core microeconomics sequence either at Georgia State or at Emory University during the first two years. In order of importance, empirical modeling students should study firm and consumer behavior, game theory, and general equilibrium theory.
 - · ECON 501 Microeconomic Theory II (Emory)
 - ECON 6161 Econometric Modeling and Forecasting or ECON 722 Time Series Econometrics (Emory) or ECON 8790 Time Series Econometrics (GA State)
 - ECON 721 Advanced Microeconometrics (Emory) or ECON 8740 Applied Statistics and Econometrics(GA State)
 - · ECON 723 Topics in Econometrics (Emory) or ECON 8750 Econometrics (GA State)
 - ECON 724 Applied Econometrics (Emory) or ECON 8760 Advanced Econometrics (GA State)
 - ECON 8840 Applied Statistics and Econometrics II (GA State)
 - ECON 8440 Industrial Organization (GA State) or equivalent (Emory)
 - MGT 8811 Best Practices in Teaching (take semester before teaching)
 - · CETL 8721 or CETL 8722 Academic Writing
- UCGA 6010 Multivariate Social Data Analysis (GA State)
 - ECON 9340 Experimental Economics (GA State)
 - Others (subject to approval)
- PhD Seminars in Marketing at Georgia Tech, Emory, or GA State
 - · Any MGT 7000 courses offered in COM
 - · ISYE 6230 Economic Decision Analysis (Game theory) or ECON 706 Game Theory (Emory)
 - · ECON 761 Market Structure and Imperfect Competition (Emory)
 - ECON 762 Theory of the Firm (Emory)
 - · SOC 552 Structural Aspects of Social Interaction
 - · Others (subject to approval)
- ⁸ A student should select independent study and other courses to support his/her career objectives. Typically, a student should register for an independent study course with a particular faculty while undertaking research that involves direct and substantial guidance and interaction from that faculty. In addition, a student may take an independent study course in support of his/her research interests in other units. The particular set of courses chosen in this category should be determined jointly by the student, the advisor, and the PhD coordinator.

| Code | Title | Credit Hours |
|--------------|---|-----------------|
| Operations M | lanagement | |
| Seminar Req | uirements ¹ | 15 |
| Research Me | thods Requirements ² | |
| ECON 7004 | Mathematics for Economists | 3 |
| ISYE 6650 | Probabilistic Models and Their Applications | 3 |
| ISYE 6669 | Deterministic Optimization | 3 |
| ISYE 6230 | Economic Decision Analysis | 3 |
| OR | | |
| ECON 7013 | Microeconomic Theory II | 3 |
| PSYC 7301 | Introduction to Multivariate Statistics | 3 |

| OH | | |
|--------------|---|---|
| ISYE 7405 | Multivariate Data Analysis | 3 |
| ECON 7022 | Econometrics I | 3 |
| Two from the | following list: | |
| ISYE 6404 | Nonparametric Data Analysis | 3 |
| ISYE 6644 | Simulation | 3 |
| ISYE 6656 | Queuing Theory | 3 |
| ISYE 6661 | Linear Optimization ² | 3 |
| ISYE 6662 | Discrete Optimization | 3 |
| ISYE 6663 | Nonlinear Optimization | 3 |
| ISYE 6761 | Stochastic Processes I 3 | 3 |
| ISYE 6762 | Stochastic Processes II | 3 |
| ISYE 6831 | Advanced Simulation | 3 |
| ISYE 7400 | Advanced Design of Experiments | 3 |
| ISYE 7441 | Linear Statistical Models I | 3 |
| PSYC 6019 | Statistical Analysis of Psychological Data I | 5 |
| PSYC 6020 | Statistical Analysis of Psychological Data II | 5 |
| PSYC 7302 | Structural Equation Modeling | 3 |
| ECON 7111 | Industrial Organization I | 3 |
| ISYE 6412 | Theoretical Statistics | 3 |
| ISYE 6416 | Computational Statistics | 3 |
| ISYE 7401 | Advanced Statistical Modeling | 3 |
| ISYE 7201 | Production and Service Systems Engineering | 3 |
| ECON 7013 | Microeconomic Theory II | 3 |
| ECON 7023 | Econometrics II | 3 |
| ECON 7112 | Industrial Organization II | 3 |
| MBA Course | Requirements ⁴ | |
| Independent | Study and Other Selected Courses ⁵ | |
| Minor | | 6 |

Four Ph.D. level Operations Management seminars and the Dynamic Programming OM Ph.D. course are required for letter grade, earning a B or better. These courses must be completed in the first two years of the program, if offered.

consider first auditing/taking MATH 4317 or ISYE 8803 Math of OR
 consider first auditing/taking MATH 4317 or ISYE 8803 Math of OR

- Students who already have an MBA will be required to take one MBA course (audit or credit), preferably within OM. Otherwise, students must complete two MBA courses (one for credit, one for audit or credit) one or two of which should be outside OM to satisfy the breadth requirement. Students must earn an average grade of B or better.
 - · Operations Strategy

OR

- Global Operations and Supply Chain Management
- Managing Resources of the Technological Firm
- · Supply Chain Modeling
- · Pricing Analytics and Revenue Management
- · Service Operations Management
- Collaborative Product Development
- · Business Strategies for Sustainability
- A student should select independent study and other courses to support his/her career objectives. Typically, a student should register for an independent study course with a particular faculty while undertaking research that involves direct and substantial guidance and interaction from that faculty. In addition, a student may take an independent study course in support of his/her research interests

in other units. The particular set of courses chosen in this category should be determined jointly by the student, the advisor, and the PhD coordinator.

| Code | Title | Credit Hours |
|--------------|---|-----------------|
| Organization | al Behavior | |
| Seminar Req | uirements | 12 |
| MGT 7102 | Organization Behavior Research Methods | 3 |
| MGT 7105 | Individual Behavior in Organizations | 3 |
| MGT 7106 | Group Dynamics | 3 |
| MGT 7107 | Organizational Theory | 3 |
| Quantitative | 18 | |
| PSYC 6019 | Statistical Analysis of Psychological Data I | 5 |
| PSYC 6020 | Statistical Analysis of Psychological Data II | 5 |
| PSYC 6018 | Principles of Research Design | 3 |
| PSYC 7301 | Introduction to Multivariate Statistics | 3 |
| Independent | Study and Other Selected Courses ² | |
| Minor | | 6 |

- Students are also required to take a course in structural equation modeling and multi-level data analysis.
- A student should select independent study and other courses to support his/her career objectives. Typically, a student should register for an independent study course with a particular faculty while undertaking research that involves direct and substantial guidance and interaction from that faculty. In addition, a student may take an independent study course in support of his/her research interests in other units. The particular set of courses chosen in this category should be determined jointly by the student, the advisor, and the PhD coordinator.

| Code | Title | Credit Hours |
|---------------|---|-----------------|
| Strategy and | | |
| Seminar Requ | uirements ¹ | |
| MGT 8803 | Special Topics in Management (Industrial Organization & Innovation) | |
| MGT 8803 | Special Topics in Management (Economics and Sociology of Science) | |
| MGT 7611 | PhD Seminar in Entrepreneurship | |
| Other MGT | 8803 Strategy & Innovation courses | |
| Research Met | thods Requirements ² | 15 |
| ECON 7022 | Econometrics I | 3 |
| ECON 7023 | Econometrics II | 3 |
| MGT 8803 | Special Topics in Management | 3 |
| MGT 7102 | Organization Behavior Research Methods ³ | 3 |
| Major Require | ements ⁴ | 18 |
| ECON 7012 | Microeconomic Theory I | 3 |
| MGT 7107 | Organizational Theory | 3 |
| or PUBP 60 | Organization Theory | |
| MGT 7400 | PhD Strategic Management Research I | 3 |
| ECON 6105 | Macroeconomics | 3 |
| ECON 6140 | Econometrics I | 3 |
| ECON 6160 | Econometrics II | 3 |

| ECON 6161 | Econometric Modeling and Forecasting | 3 |
|-----------|---|-----|
| ECON 7004 | Mathematics for Economists | 3 |
| ECON 7013 | Microeconomic Theory II | 3 |
| ECON 7111 | Industrial Organization I | 3 |
| ECON 7112 | Industrial Organization II | 3 |
| MGT 6070 | International Finance | 3 |
| MGT 7064 | Microeconomics Theory for Management | 3 |
| MGT 7105 | Individual Behavior in Organizations | 3 |
| MGT 7106 | Group Dynamics | 3 |
| MGT 7601 | Financial Accounting & Reporting Research Seminar | 3 |
| MGT 7602 | Management Accounting Research Seminar | 3 |
| MGT 7603 | PhD Seminar in Auditing Research | 3 |
| MGT 7604 | Seminar in Modern Capital Markets Research | 3 |
| MGT 7605 | Advanced Empirical Methods for Information Systems | 1.5 |
| MGT 7606 | Analytical Modeling Foundations for IS | 1.5 |
| MGT 7607 | Economics of Artificial Intelligence, and Machine Learning | 1.5 |
| MGT 7608 | Experimental Research in Information Systems | 1.5 |
| MGT 7609 | Observational Studies in IS | 1.5 |
| PSYC 6018 | Principles of Research Design | 3 |
| PSYC 6019 | Statistical Analysis of Psychological Data I | 5 |
| PSYC 6020 | Statistical Analysis of Psychological Data II | 5 |
| PSYC 6021 | Personality Theories | 3 |
| PSYC 6795 | Introduction to Cognitive Science | 3 |
| PSYC 7790 | Cognitive Modeling | 4 |
| PSYC 8010 | Seminar in Cognitive Psychology | 3 |
| PSYC 8060 | Seminar in Quantitative Psychology | 3 |
| CS 7641 | Machine Learning | 3 |
| ISYE 6230 | Economic Decision Analysis | 3 |
| ISYE 6401 | Statistical Modeling and Design of | 3 |
| | Experiments | |
| ISYE 6402 | Time Series Analysis | 3 |
| ISYE 6404 | Nonparametric Data Analysis | 3 |
| ISYE 6411 | Fundamentals of Statistics with Applications | 3 |
| ISYE 6412 | Theoretical Statistics | 3 |
| ISYE 6414 | Statistical Modeling and Regression Analysis | 3 |
| ISYE 6420 | Introduction to Theory and Practice of Bayesian Statistics | 3 |
| ISYE 6501 | Intro Analytics Modeling | 3 |
| ISYE 6644 | Simulation | 3 |
| ISYE 6650 | Probabilistic Models and Their Applications | 3 |
| ISYE 6656 | Queuing Theory | 3 |
| ISYE 6661 | Linear Optimization | 3 |
| ISYE 6662 | Discrete Optimization | 3 |
| ISYE 6663 | Nonlinear Optimization | 3 |
| ISYE 6664 | Stochastic Optimization | 3 |
| ISYE 6669 | Deterministic Optimization | 3 |
| ISYE 6739 | Basic Statistical Methods | 3 |
| ISYE 6761 | Stochastic Processes I | 3 |
| ISYE 6762 | Stochastic Processes II | 3 |
| ISYE 6831 | Advanced Simulation | 3 |
| | | |

| ISYE 7201 | Production and Service Systems Engineering | 3 |
|--|--|---|
| ISYE 7400 | Advanced Design of Experiments | 3 |
| ISYE 7401 | Advanced Statistical Modeling | 3 |
| ISYE 7405 | Multivariate Data Analysis | 3 |
| MATH 6338 | Real Analysis II | 3 |
| MGT 6066 | Mergers and Acquisitions | 3 |
| MGT 6080 | Investments | 3 |
| MGT 6081 | Derivative Securities | 3 |
| MGT 6090 | Management of Financial Institutions | 3 |
| PSYC 6011 | Cognitive Psychology | 3 |
| PSYC 6013 | Biopsychology | 3 |
| PSYC 6012 | Social Psychology | 3 |
| PSYC 6014 | Sensation and Perception | 3 |
| PSYC 7201 | Industrial/Organizational Psychology | 3 |
| PSYC 7301 | Introduction to Multivariate Statistics | 3 |
| PSYC 7302 | Structural Equation Modeling | 3 |
| PSYC 8000 | Seminar in Experimental Psychology | 3 |
| Independent Study and Other Selected Courses 7 | | |
| Minor ⁸ | | 6 |

- At least three of the following courses are required

 To complete the methods requirements, students can choose from a
 wide range of methods courses based on their research interests and
 dissertation topics.
- or BUS 701: Survey of Business Research Methods (Emory)
- The following courses are required (with a letter grade of "B" or better) Other courses can be used to fulfill the major requirement upon approval by the advisor and PhD coordinator.
- If this course is not offered, students will take ECON 7012 Microeconomic Theory
- ⁶ or BUS 732 Organization and Management I (Emory)
- A student should select independent study and other courses to support his/her career objectives. Typically, a student should register for an independent study course with a particular faculty while undertaking research that involves direct and substantial guidance and interaction from that faculty. In addition, a student may take an independent study course in support of his/her research interests in other units. The particular set of courses chosen in this category should be determined jointly by the student, the advisor, and the PhD coordinator.
- ⁸ Students must complete 6 credit hours in one of three possible minors:
 - Minor in Economics
 - · Minor in Sociology
 - · Minor in Science and Technology Policy