REAL 5002. Real Estate Finance. (3 Credits)
This course covers the principles of commercial real estate finance including valuation methodologies, income and expense analysis, derivation of capitalization rates, concepts of commercial leasing, forms of debt and equity, valuation of land and key principles of construction loan finance.

REAL 5004. Real Estate Accounting and Tax. (3 Credits)
This course covers accounting concepts, rules, regulations, and reporting requirements for income-producing properties; tax tools for financial statements and real estate investments; accounting principles and income tax analysis for decision-making; and accounting and tax implications of real estate ownership structures and real estate transactions.

REAL 5006. Real Estate Legal Concepts and Contracts. (3 Credits)
This course provides an overview of the typical, major legal agreements that are involved with every commercial real estate transaction. The course is broken into four segments: legal overview, purchase/sale agreements, leases, and financing agreements.

REAL 5008. Real Estate Economics and Market Analysis. (3 Credits)
This course discusses economic base analysis, macroeconomic factors influencing metropolitan areas and links connecting economic fundamentals to property market performance. Delineation of market and submarket areas will be stressed, along with the differences arising from specific property types including office, retail, industrial, housing, and hotels. The dynamics of cities will be studied, especially as they relate to property market performance.

REAL 5010. Real Estate Structures and Capital Markets. (3 Credits)
The course covers the structure and operation of public and private, debt and equity real estate capital markets and the means by which this capital is channeled into commercial real estate to finance local transactions. Key topics include capital sources, participants, risk and return, tranches, capital asset pricing model (CAPM), CMBS, REOCs and REITs.

REAL 5012. Real Estate Valuation and Investment Analysis. (3 Credits)
Students in this course evaluate a range of investment opportunities in commercial real estate from the perspective of the investor (equity) and the lender (debt). Students analyze investment assumptions and model cash flows using Excel. Valuation techniques utilized include income capitalization and discounted cash flow analysis. Students examine pricing, returns, investment horizon, hold vs. sell strategies, financial leverage, sizing debt based on lender parameters and the impacts of leverage on returns.
Prerequisites: REAL 6022 and REAL 5002 and REAL 5004 and REAL 5008.

REAL 5014. Negotiation in Real Estate. (1.5 Credits)
This course provides an introduction to negotiation along with a strong foundation in a number of key concepts, including the three major roles of the conflict specialist, theories of communication and conflict, approaches to negotiation and their limitations, private versus court-centered approaches to resolving conflict and psychological biases and barriers in addressing conflict. Students explore new roles for conflict specialists with an eye towards preparing themselves to engage in various negotiation scenarios that arise in the real estate industry.

REAL 5016. Ethical Issues in Real Estate. (1.5 Credits)
Students in this course study how ethics are considered from various points of view: historically, relationally and transactionally. In a series of different situations commonly occurring in the real estate industry, students consider the ethical issues present and then evaluate the adequacy of the real world responses to those issues.

REAL 5050. Construction Contracts, Claims, and Dispute Resolution. (1.5 Credits)
This course examines the essential elements of commonly used contracts, including the rights, duties, and obligations of the owner and contractor. It offers the legal knowledge to review, understand, and evaluate the terms and conditions of construction contracts to minimize the risk of project disruptions, claims, disputes, and litigation. This course also provides an overview of project delivery methods, the bidding process, contract formation, contract forms, contract conditions, general conditions, subcontracts, privity of contracts, riders, defaults and terminations, changed conditions, changes and extra work, payments, lien law, surety bonds, damages for delay, claims, and methods of dispute resolution. Discussions will include the riskier provisions, including the incorporation by reference clause, the contingent payment clause, the no damage for delay clause, cardinal changes, and terminations for cause and convenience.

REAL 5052. Construction Financial Management. (1.5 Credits)
The general objectives of this course are for students to gain a comprehensive understanding of the key factors of effective construction financial and cost control. Students will develop cost control and tracking methods to monitor and control project budgets for successful project outcomes. The course covers accounting systems and financial analysis; owner and subcontractor credit risk underwriting; project funding; project cash flow and financing metrics; critical path analysis as it pertains to cost; general conditions, insurance, and risk management; sales taxes; progress payment disbursement; forecasting and trends; and the use of associated reports. Students will gain practical knowledge of concepts of construction financial and cost control and apply this knowledge toward the development of a response to an unplanned event with the goal of minimizing its impact on the project.

REAL 5054. Construction Cost Estimating and Bidding Strategies. (1.5 Credits)
This course will expose students to the theory, processes, and practices to prepare construction cost estimates and final project bids. Students will begin with an understanding of key terminology and progress into core topics including pre-construction and detailed estimates; planning for the estimate, design, and constructability review; general conditions; predesign; conceptual and preliminary budgets; cost of labor; pricing of material; time/cost analysis design review; unit prices; lump-sum bids; direct and indirect costs; mark-up; overhead; profit; bonds; insurance; and internal and external management considerations. This course will proceed with discussions on the bidding process, the bid package, subcontractor bid comparisons, qualification, bid solicitation, bid leveling and notification, bid analysis, and final bid price. Case studies, problems, and exercises are used extensively.
REAL 5056. Construction Scheduling and Impact Analysis. (1.5 Credits)
This course will expose students to a variety of network-based scheduling principles and tools including advanced Critical Path Method (CPM) construction scheduling techniques and the Precedence Diagramming Method (PDM). The course will cover project resource allocation, resource leveling, schedule development, schedule updating, schedule impacts of date constraints, project time and cost trade-offs, activity duration estimating, work breakdown structures, and an overview of construction contract scheduling specifications. An introduction to other scheduling methodologies and the use of schedules in construction claims will be addressed.

REAL 5058. Pre-Construction Project Planning and Development. (3 Credits)
Pre-construction project planning and development efforts play a key role in the overall success of a project, providing an opportunity for discovery, risk assessment, and strategic planning. This early planning can have a significant impact on project outcomes and offer substantial time and cost savings. This course examines the essential planning and analyses performed prior to the construction phase of a project to determine project scope, schedule, and cost estimate. It offers the knowledge to define project objectives, determine feasibility, manage risks, and analyze schedule and cost impacts to ensure optimal project performance and customer satisfaction.

REAL 5060. Construction Project Monitoring, Controls and Execution. (3 Credits)
Pre-construction project planning and development efforts play a key role in the overall success of a project as they provide the opportunity for discovery, risk assessment, and strategic planning. This early planning can have a significant impact on project outcomes and offer substantial time and cost savings. This course examines the essential planning and analyses performed prior to the construction phase of a project to determine the project’s scope, schedule, and cost estimate. It offers the knowledge to define project objectives, determine feasibility, manage risks, and analyze schedule and cost impacts to ensure optimal project performance and customer satisfaction.

REAL 5102. Real Estate Risk and Portfolio Management. (3 Credits)
This course discusses the theory and principles of investments and portfolio management. Students acquire a working knowledge of the risks associated with individual real estate investments, such as asset-specific underwriting, credit evaluation, and tenant credit risk and then explore advanced topics including portfolio selection, calculation of efficient sets, and portfolio performance evaluation for the holding entity. 
Prerequisites: REAL 5002 and REAL 5004 and REAL 5006 and REAL 5008 and REAL 5010.

REAL 5104. The Real Estate Development Process. (3 Credits)
This course provides a practical analysis of the phases of the real estate development process including conceptualization, site acquisition, planning and design, construction, financing, leasing and marketing. Leadership, management and control of the development team are featured issues.

Attribute: CONM.
Prerequisites: REAL 5002 and REAL 5006.

REAL 5106. Real Estate Asset Management. (3 Credits)
Students learn how to develop an investment strategy and an actionable asset management plan based on that strategy for increasing the value of real estate assets under management on behalf of ownership. Students examine acquisitions, leasing, operations, budgets, capital expenditures, repositioning, refinancing, dispositions and distressed and foreclosure workouts using financial modeling, underwriting, risk analysis, and performance benchmarking concepts and tools. The decision-making process will be examined from the property, asset and portfolio management perspectives.

Prerequisites: REAL 5002 and REAL 5004 and REAL 5006 and REAL 5008.

REAL 5108. Real Estate Credit Analysis and Underwriting. (3 Credits)
Students learn how to underwrite and structure commercial real estate (CRE) loans for the acquisition, development and construction of income-producing properties. A combination of market, risk and financial analysis tools will be used to assess commercial investment properties and borrower credit worthiness, and to make prudent, defensible lending decisions.

Prerequisite: REAL 5002.

REAL 6001. Real Estate Financial Modeling. (1.5 Credits)
Students gain a comprehensive understanding of real estate financial modeling principles and practices to prepare models for income and expense presentation and analysis, direct capitalization, and discounted cash flow (DCF) analysis. Students develop the vocabulary and preliminary critical thinking skills needed to develop real estate financial models. The course will emphasize effective presentation of data and productivity.

Attribute: REFI.

REAL 6002. Real Estate Development Feasibility Study. (3 Credits)
This course examines the components of a real estate development feasibility study report. Students refine leadership, team and presentation skills to deliver a comprehensive and persuasive report on a currently available real estate project.

REAL 6003. Private Equity. (1.5 Credits)
In this course, students develop an understanding of the taxonomy of different real estate private equity strategies, including core, core plus, value-add, and opportunistic. Students learn how real estate funds are set up and managed, how to align the general partners’ fees and incentives with the limited partners’ interests, and exit strategies such as initial public offerings (IPOs), recapitalization, and secondary sales. The course examines the role of private equity real estate investments within a portfolio comprising various asset classes, with a focus on performance measurement, diversification gains, and risk measurement.

Attribute: REFI.

Prerequisite: REAL 5002.

REAL 6004. Adaptive Reuse and Sustainability. (1.5 Credits)
Utilizing sustainable principles and building practices, this comprehensive course challenges students to think critically about reusing existing building stock and maintaining historic structures. It encourages adaptive reuse by owners and developers entering the design review process. The goal is to help developers think critically about the opportunities presented by adaptive reuse.

Attributes: CONM, REDV.
REAL 6005. Commercial Mortgage-Backed Securities. (1.5 Credits)
In this course, students learn the history, structure, and key building blocks (commercial real estate loans) of commercial mortgage-backed securities (CMBS), as well as the transaction, ratings, and offering process. The participants, legal documents, and federal regulations that govern CMBS are also examined. Topics covered include the perspectives of originators, structurers, loan sellers, attorneys, ratings agencies, investors, servicers, and special servicers. The course will focus primarily on single-asset and single-borrower transactions and a securitized financing tool used primarily by commercial mortgage REITs: CLOs.
Attribute: REFI.
Prerequisite: REAL 5002.

REAL 6006. Development Project Leadership, Management and Communications. (1.5 Credits)
Gain essential leadership, management and reporting skills and strategies to effectively control the design and construction process, ensuring that every decision is made in the owner’s best interest. Become acquainted with different types of reporting, and learn best practices and tools needed to improve performance, standards and timely project delivery.
Attributes: CONM, REDV.

REAL 6007. Real Estate Investment Trusts. (1.5 Credits)
Students gain an understanding of the history, operations, and mechanics of REITs, and how REITs are an important link between the real estate capital markets and the property markets. Topics covered include real estate price, market trends, valuation methods, and returns and benchmarks.
Attribute: REFI.

REAL 6008. Affordable Housing. (1.5 Credits)
In this course, students acquire an understanding of the history and current state of affordable housing in the US in general and NYC in particular. Students learn from a combination of formal lectures and interviews with past and current industry participants and leaders. The focus of the course is examine the multiple factors that must be addressed in the planning and execution of affordable housing projects.
Attribute: REDV.

REAL 6010. Infrastructure Project Finance. (1.5 Credits)
This course presents the financial and legal principles of project and infrastructure finance. The increasing demand for infrastructure projects including roads, airports, conventional and alternative (renewables) power generation and health and education facilities has positively affected the growth of privately and publicly funded infrastructure investments, thus the existence, improvement or creation of infrastructure is critical to any real estate project.
Attributes: CONM, REDV.

REAL 6012. Global Real Estate Investment. (1.5 Credits)
This course provides a comparative and critical approach to undertaking international real estate transactions, investments and development projects by providing a framework for analyzing real estate investments across borders within specific markets.

REAL 6016. Real Estate Entrepreneurship Business Planning. (1.5 Credits)
This course integrates the concepts, tools and practices of entrepreneurship. Students learn to be superior opportunity assessors and shapers, to understand the integration of people and process in entrepreneurship, to write, articulate and present a new venture execution plan, to understand the alternatives and trade-offs in financing, starting and operating a venture, and to gain a better understanding of their personal entrepreneurial capabilities.

REAL 6018. Real Estate Research and Technology. (1.5 Credits)
This course examines the growing and ever-changing technology ecosystem within the real estate industry (CRE tech or PropTech) and the various methods to perform essential market research using these platforms. Students gain an understanding of key areas of the real estate technology space, prominent business models, major contributors, growth initiatives and emerging markets.
Attribute: REFI.

REAL 6020. Internship. (1.5 Credits)

REAL 6022. Special Topics in Real Estate. (1.5 Credits)
These courses, which will be offered periodically, are designed to enhance the student’s educational experience by supplementing the standard array of courses with topics that are very highly specialized. Areas of study will include real estate finance, investment and development. In most cases, they will be of interest to those students who desire a more intense exposure to a particular field of study.
Attributes: CONM, REDV, REFI.

REAL 6050. Construction Technology. (1.5 Credits)
This course provides an overview of the latest methods, materials, and systems used in the construction of the core and shell and interior components of high-rise buildings. Topics include working drawings; specifications; site work; foundations; steel and reinforced concrete framing; glass, masonry, and exterior wall systems; drywall construction systems; light gauge metal framing; brick, stone, and miscellaneous masonry; fireproofing; doors, windows, glass, and glazing; finish ceilings; finish flooring; and acoustic materials.
Attribute: CONM.

REAL 6100. Applied Project. (3 Credits)
The Applied Project capstone course provides for a comprehensive application of core, flex core and elective course principles, concepts, and professional practice to real world real estate investment projects.
Prerequisites: REAL 6022 and REAL 5002 and REAL 5004 and REAL 5006 and REAL 5008 and REAL 5010 and REAL 5012 and REAL 5104 and REAL 6002.

REAL 6200. Research Project (Thesis). (3 Credits)
Students work with a qualified supervisor to conduct research, collect data, analyze, test their hypotheses and write up their findings. The finished thesis must demonstrate the student’s ability to conduct comprehensive research and articulate original ideas and thought processes that make a practical contribution to the existing body of knowledge in the field of real estate.