The Berkeley-Haas PhD Program
Real Estate

Requirements Years 1 and 2:

Core Classes: Required and used to determine overall GPA; need 3.3 cumulative GPA in these classes.

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<th>1st Semester - Fall</th>
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<td>Econ 201A</td>
<td>Econ 201B</td>
<td>PHDBA 239C</td>
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<td>Econ 240A</td>
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<td>PHDBA 239A</td>
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<td>PHDBA 239B</td>
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<td>PHDBA 289S</td>
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The table only outlines the required courses listed below. Students are expected to meet with the Real Estate Field Advisor to find additional courses or enroll in PHDBA 602 starting in their 3rd semester.

- Econ 204 Mathematical Tools for Economics, Prerequisite for Econ 201A; taught in the summer
- Econ 201A Economic Theory
- Econ 201B Economic Theory
- Econ 240A Econometrics
- Econ 240 Econometrics
- PHDBA 375 Teaching Business (required to work as a GSI)
- PHDBA 239A Discrete-Time Asset Pricing
- PHDBA 239B Continuous-Time Finance
- PHDBA 239C Empirical Finance
- PHDBA 239DA Microstructure (7.5 weeks)
- PHDBA 239DB Corporate Finance (7.5 weeks)
- PHDBA 239S Finance Seminar (every semester after the first year)
- PHDBA 289S Real Estate Seminar (every semester after the first year)

Recommended:

- MATH 104 Real Analyses
- STAT 251 Stochastic Calculus
- ECON 234A Macroeconomic Finance
- ECON 236B Aggregate Economics, Applied Macroeconomics

Revised 7-29-2015
☐ ECON 234C Financial Decision-Making in Firms

☐ ECON 209B: Topics course on coordination and asymmetric information in finance and macroeconomics

Options:

☐ ECON 202A Macroeconomic Theory

☐ STAT 200A Statistics

☐ STAT 204 Summary of Stat 205A and Stat 205B

☐ ECON 202B Macroeconomic Theory

☐ ECON 224 Applies Econometrics

☐ MATH 105 Analysis

☐ MFE 230Q Introduction to Stochastic Calculus

☐ MBA 231 Corporate Finance

☐ MBA 236A Futures and Options Markets

☐ Math 202A Measure Theory

☐ Stat 205A Probability Theory and Measure Theory

☐ Econ 209A Theory and Applications of Non-Cooperative Games

☐ Econ 220A Industrial Organization

☐ Econ 241B Maximum likelihood, simulation methods, non-parametric econometrics

☐ Econ 280B International Economics

**Requirements Years 1 and 2 (continued):**

☐ Students are required to produce a research paper that identifies an open question in the literature and poses a potential solution. Students submit these papers at the end of the summer to the field advisor and present their work in a seminar early in the fall semester of their second year. During their second summer, after the preliminary examinations, students work toward producing a polished research paper. This is done under the supervision of two faculty members who evaluate the work. Success in independent research is a requirement for satisfactory progress in the program.

☐ Preliminary Examination

This is given in the summer at the end of the second year. The exam consists of two parts. The written examination day takes place at the beginning of the summer for eight hours and closed book. The second part is a paper requirement, which has to include a novel piece of research to be written under the supervision of at least two faculty members. The papers are due in early August and will be presented to the faculty at the beginning of the fall semester.
Requirements – Years 2-4

Core (Required) Classes – Years 2 until graduation

☐ PHDBA 239S Finance Seminar (every semester after the first year)

☐ PHDBA 289S Real Estate Seminar (every semester after the first year)

All students are required to enroll in, attend, and present their original research in the Real Estate student seminar, PHDBA 289S, from the fall of their second year in the program until they have graduated.

Options:

☐ PHDBA 602 Independent Study/Supervised Research

☐ PHDBA 299 Independent Research

Oral Qualifying Examination

☐ QE before the end of the 6th semester (3rd year), no later than June 30th

Students submit and defend their dissertation proposals in the oral qualifying examination before the end of the 3rd year. The objective is to determine whether students have the intellectual capacity and academic preparation to complete the program. Successful completion of prior phases of the program and a well-defined research proposal are required.

Dissertation

A dissertation is the formulation and completion of a major research project and its written presentation. It is the last step in the program. The university has specific guidelines for completing the dissertation. A faculty committee reviews the dissertation as an ongoing process. The committee is chosen by the student and must consist of three or more faculty members, one of whom must be from a department outside of Haas. When all members are satisfied, they sign off on the dissertation to signify their approval. The student then files the work with the University.