



PIER Fellowship: Overview of Distribution Requirements

Below is a list of courses that will fulfill PIER curriculum requirements: quantitative methods, psychometrics, program evaluation, and education policy. Note that this is not necessarily a complete list. New courses are developed regularly across the university, and fellows may petition to have appropriate courses count against the requirements.

If a fellow plans to count any module courses towards his or her PIER requirements, they will need to take 2 modules to fulfill 1 course requirement with the exception of the S-061 psychometric sequence.

**** Indicates the course is a module**

Quantitative Methods (3 courses from list below)	
<p>HGSE</p> <ul style="list-style-type: none"> • S-022: Statistical Computing and Simulation-Based Analysis • S-040: Introduction to Applied Data Analysis • S-043: Multilevel and Longitudinal Models • S-052: Applied Data Analysis • S-090A1: Applied Statistical Analysis with Latent Variables • S-290: Quantitative Methods for Improving Casual Inference in Educational Research 	<p>HKS</p> <ul style="list-style-type: none"> • API-209: Advanced Quantitative Methods I • API-210: Advanced Quantitative Methods II • API-302: Analytical Frameworks for Policy
<p>FAS – Economics</p> <ul style="list-style-type: none"> • Econ-2110: Econometrics I • Econ-2120: Introduction to Applied Econometrics • Econ-2140: Econometric Methods • Econ-2142: Time Series Analysis • Econ 2162A or B: Research in Econometrics 	<p>FAS – Government</p> <ul style="list-style-type: none"> • Gov-2000: Introduction to Quantitative Methods I • Gov-2001: Advanced Quantitative Research Methodology • Gov-2002: Casual Inference (updated title- formerly Topics in Quantitative Methods) <p>Continuation of FAS-Government *Note: Gov-2000E may not be counted towards meeting PIER requirements.</p>

Quantitative Methods (3 courses from list below)

FAS – Stats

- [Stat-186: Statistical Methods for Evaluating Causal Effects](#)
- [Stat-210: Probability I](#)
- [Stat-211: Statistical Inference I](#)
- [Stat-212: Probability II](#)
- [Stat-213: Statistical Inference II](#)

FAS – Psychology

- [Psy-1950: Intermediate Statistical Analysis in Psychology](#)
- [Psy.1952 Multivariate Analysis in Psychology](#)
- [Psy.2030 Bayesian Data Analysis](#)

FAS – Sociology

- [Soc-202: Intermediate Quantitative Research Methods](#)
- [Soc-203: Advanced Quantitative Research Methods](#)
- [Soc-211: Analysis of Longitudinal Data: Seminar \(Formerly known as 203B\)](#)
- [Soc-303: Advanced Topics in Quantitative Research](#)
- [Soc-318: Quantitative Methods in Sociology](#)

Psychometrics: 1 Module (S-061a)

[HGSE S-061a & S061b: Methods of Educational Measurement I & II](#)

Fellows are required to take the first half of the module sequence (S-061a); however, enrollment in both modules is strongly encouraged.

Program Evaluation: Approved 1 Course Or 3 Course Methodological Sequence

- [HKS API-211/HGSE A-164: Program Evaluation \(recommended\)](#)
- [HKS API-208: Program Evaluation: Estimating Program Effectiveness with Empirical Analysis^](#)
- [HGSE S-290 Quantitative Methods for Improving Causal Inference in Educational Research^](#)

^Courses equivalent to A-164 that meet the PIER program evaluation requirement. Fellows will not be able to count these courses again to fulfill the quantitative methods requirements.

Methodological Sequences which fulfill the program evaluation requirement of A-164:

- Economics
 1. [Econ-2110: Econometrics I](#)
 2. [Econ-2120: Introduction to Applied Econometrics](#)
 3. [Econ-2140: Econometric Methods](#)
- Government
 1. [Gov-2000: Introduction to Quantitative Methods I](#)
 2. [Gov-2001: Advanced Quantitative Research Methodology](#)
 3. [Gov-2002: Causal Inference](#)
- Statistics
 1. [Stat-186: Statistical Methods for Evaluating Causal Effects](#)
 2. [Stat-210: Probability](#)
 3. [Stat-211: Statistical Inference](#)

Continued Methodological Sequences which fulfill the program evaluation requirement of A-164:

- Sociology
 1. [Soc-202: Intermediate Quantitative Research Methods](#)
 2. [Soc-203: Advanced Quantitative Research Methods](#)
 3. [Soc-205: Sociological Research Design](#)

Education Policy/ Improving Education Systems (2 Courses from list below)

1 of these two courses must focus on the following subtopics: teacher and teaching effectiveness, access to higher education, and early childhood education

[HGSE A-024/HKS SUP-449: Politics Education Policy in U.S.](#)
[HGSE A-029: Introduction to Education Finance and Budgeting](#)
[HGSE A-108/ HKS SUP-470: Strategies for Narrowing Racial Achievement Gaps](#)
[HGSE A-122: The Why, What, and How of School, Family, and Community Partnerships \(added\)](#)
[HGSE A-123: Teacher and Teacher Quality](#)
[HGSE A-129: The Federal Government in Schools](#)
[HGSE A-203: Educational Justice \(added\)](#)
[HGSE A-205: Microeconomics: A Policy Tool for Educators](#)
[HGSE A-310G Data Wise: Using Data to Improve Teaching and Learning](#)
[HGSE A-312: Systemic Reform in Urban School Districts and Schools](#)
[HGSE A-322: School Systems](#)
[HGSE A-325: Improving Systems of Learning: Instructional Leadership at System Level](#)
[HGSE A-362: Institutional Change in School Organizations, Systems, and Sectors](#)
[HGSE A-412: The History of American Higher Education](#)
[HGSE A-710D: Principles and Policy Issues of College Admissions **](#)
[HGSE A-710J: Using Data to Support Decisionmaking and Improvement in Higher Education **](#)
[HGSE A-710P: The Economics of Higher Education Access, Outcomes, and Competition **](#)
[HGSE A-719: Diversity and Equity in American Higher Education](#)
[HGSE A-801: Education Policy Analysis and Research in Comparative Perspective](#)
[HGSE AH-125: Driving Science-Based Innovation in Early Childhood and Practice Policy](#)
[HGSE S-123/ HKS SUP-442: Tackling the Toughest Challenges for Modern American Higher Education](#)
[HGSE S-803: Core Ph.D. Seminar in Education Policy and Program Evaluation](#)
[HGSE T-565: Entrepreneurship in Education Marketplace](#)
[HKS SUP-427: Analyzing Education Policy](#)
[Gov-1368/HKS SUP-447: The Politics of American Education](#)
[Gov-2490/HKS SUP-448: The Political Economy of the School](#)
[Econ-980B Education in the Economy](#)
[Econ-1816: Race in America](#)
[Econ-1820: Education Reform in America](#)
[Econ-2330: History and Human Capital \(added\)](#)
[Psy-1055: In Search of the Perfect School](#)
[Psy-1056: Explaining Academic Achievement](#)
[Psy-1515: Psychology of Groups at Work](#)