

## *Description of Academic Background Information and Samples*

Dear Applicant,

Referencing information posted on our "[How to Apply](#)" webpage, under "5. Official Transcripts", **All applicants are required to upload a document showing the detail of their academic background**, especially in the areas of Mathematics and Economic Theory.

Below are SAMPLES that can be used as a reference to guide you through the process for helping us to understand, and for you to explain your academic background. The academic background you describe **must be** directly connected to your official transcripts that you are providing as part of your application to the UC Santa Barbara Department of Economics PhD program, and the document you submit into your online application will be checked for accuracy. Falsifying information will cause your application to be Denied admission.

As there are thousands of different types of transcripts, you will help us breakdown/decipher your academic background, which will allow us to process your application (internally prepare it for the confidential faculty admissions committee), to consideration and review your file for admissions consideration.

- 1) Please title this document: "*Description of Academic Background*".
  - a. Upload this document into your online application in the "*Statements & Supplemental Documents*" section of the online application.
  - b. Choose "Other Document Type"
  - c. Attached the file and click on "Upload Document"
- 2) We **do not need to know** the text book or the name of the professor who taught the course. We need the basics to help us process and screen your academic background.
- 3) The Grade for the course is required to be in the original scoring format. No conversion to USA grade point scale is allowed.
- 4) Information on what you provide will be cross checked and referenced with your official transcript/s. Please be 100% accurate.
- 5) Below in the following pages, you will find examples from universities in; China, Columbia, India, Mexico, South Korea, Turkey, and the United States of America.

**Questions can be emailed to:**

[grad@econ.ucsb.edu](mailto:grad@econ.ucsb.edu)

## Description of Academic Background

### Sample of Chinese University #1

Name: \_\_\_\_\_

Application ID#: \_\_\_\_\_

Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is	Grade	ECON Dept. INTERNAL USE ONLY	Simple Course Description
	Beijing Forestry University	Undergraduate	Macroeconomics	<b>97/100</b>		<i>Information is needed for each class.</i>
	Beijing Forestry University	Undergraduate	Econometrics	<b>94/100</b>		<i>Information is needed for each class.</i>
	Beijing Forestry University	Undergraduate	Environmental Economics	<b>80/100</b>		<i>Information is needed for each class.</i>
	Beijing Forestry University	Undergraduate	Development Economics	<b>90/100</b>		<i>Information is needed for each class.</i>
	Beijing Forestry University	Undergraduate	Regional Economics	<b>95/100</b>		<i>Information is needed for each class.</i>
	Beijing Forestry University	Undergraduate	International Economics	<b>86/100</b>		<i>Information is needed for each class.</i>
	Peking University	Graduate	Advanced Microeconomics	<b>B</b>	<b>B</b>	<i>Information is needed for each class.</i>
	Peking University	Graduate	Advanced Macroeconomics	<b>B+</b>	<b>B+</b>	<i>Information is needed for each class.</i>
	Peking University	Graduate	Advanced Econometrics a	<b>B</b>	<b>B</b>	<i>Information is needed for each class.</i>
	Peking University	Graduate	Micro Econometric Theory b	<b>B+</b>	<b>B+</b>	<i>Information is needed for each class.</i>
	Peking University	Graduate	Environmental Economics	<b>A+</b>	<b>A+</b>	<i>Information is needed for each class.</i>
	Peking University	Graduate	Behavioral Economics	<b>B+</b>	<b>B+</b>	<i>Information is needed for each class.</i>

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### Sample of Chinese University #1

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Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is	Grade	ECON Dept. INTERNAL USE ONLY	Simple Course Description
	Beijing Forestry University	Undergraduate	Statistics Theory A	<b>91/100</b>		<i>Information is needed for each class.</i>
	Beijing Forestry University	Undergraduate	Mathematical Statistics	<b>87/100</b>		<i>Information is needed for each class.</i>
	Beijing Forestry University	Undergraduate	Advanced Mathematics 1c	<b>94/100</b>		<i>Information is needed for each class.</i>
	Beijing Forestry University	Undergraduate	Advanced Mathematics 2c	<b>83/100</b>		<i>Information is needed for each class.</i>
	Beijing Forestry University	Undergraduate	Linear Algebra	<b>94/100</b>		<i>Information is needed for each class.</i>

#### Notes:

- a) Advanced Econometrics mainly includes time series and cross-sectional;
- b) Micro Econometric Theory mainly includes panel data;
- c) Advanced Mathematics 1&2 mainly includes calculus, deeper algebra, geometry;
- d) Introduction to Management Model and Decision Making mainly includes Operations Research.

## Description of Academic Background

### Sample of Chinese University #2

Name:           Your Name Here          

Application ID#:           1234567          

Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is or Title of Course	Original Grade From Transcript	ECON Dept. INTERNAL USE ONLY	Simple Course Description or Topics Covered
	Zhejiang University	Undergraduate	Microeconomics A	<b>80/100</b>		Consumer and producer theory, market structures, game theory, general equilibrium and welfare economics, market failure and policy intervention
	Zhejiang University	Undergraduate	Intermediate Microeconomics	<b>95/100</b>		Intermediate microeconomics theory and analytical methods.
	Zhejiang University	Undergraduate	Public Economics	<b>93/100</b>		The functions of public sectors, the supply and demand of public goods, externalities correction, rent-seeking and rent-setting behavior, government regulation, the scale and structure of public expenditure, the tax system, burden of taxation, public budget, public debt system, fiscal federal system.
	Zhejiang University	Undergraduate	Macroeconomics A	<b>97/100</b>		The primary variables of macroeconomics, the effective demand model, IS-LM model and AD-AS model, macroeconomic policy, macroeconomic run, open economy macroeconomics.
	Zhejiang University	Undergraduate	Intermediate Macroeconomics	<b>96/100</b>		Microfoundations of macro models, discrete and continuous time models and equilibria, Solow Growth Model, Overlapping Generation Model, Endogenous Growth Theory
	Zhejiang University	Undergraduate	Econometrics	<b>86/100</b>		Simple Classical Linear Regression, Linear Multiple Regression and its Inference Prediction, Normal Linear Statistical Model and MLE.
	Zhejiang University	Undergraduate	Intermediate Econometrics	<b>95/100</b>		Classical Regression Models, Time Series Models; Qualitative Response Regression Models; Panel Data Models, and STATA programming.
	Zhejiang University	Undergraduate	Public Bond	<b>90/100</b>		Basic theory and practical questions about public bond.
	Zhejiang University	Undergraduate	Statistical Analysis Software	<b>93/100</b>		SAS and its application.
	Zhejiang University	Undergraduate	Public Choice Theory	<b>92/100</b>		The introduction of positive and normative analysis of public choice theory, public goods and externalities, the medium voter model, the efficiency and equity of taxation.
	Zhejiang University	Undergraduate	Seminar on Public Economics	<b>98/100</b>		Discuss research literature on four important topics: (1) why growth in tax revenue has higher than GDP growth in China; (2) China's land fiscal:

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						competition impulse or fiscal pressure; (3) understanding economic structural imbalances in China: a decentralization perspective; (4) political decentralization, budget cycles, and economic cycles.
<b>AREC 513</b>	University of Alberta	Graduate	Econometric Applications	<b>A</b>		Multiple linear regression analysis and interpretation, simultaneous equation estimation, qualitative choice models, panel and time series models, and STATA application.
<b>AREC 533</b>	University of Alberta	Graduate	Production Economics	<b>A+</b>		Static and dynamic firm theory and production principles.
<b>ECON 481</b>	University of Alberta	Undergraduate	Advanced Microeconomic Theory	<b>A+</b>		Consumer and producer theory, game theory.
<b>ECON 509</b>	University of Alberta	Graduate	Time Series Methods in Financial Econometrics	<b>Credit</b>		ARIMA modelling, spectral analysis, state-space models and the Kalman filter, nonstationary analysis, vector autoregressions, conditional heteroskedasticity, and R programming.
<b>AREC 565</b>	University of Alberta	Graduate	Economic Valuation of Ecosystem Services	<b>A</b>		Theoretical and empirical analysis of environmental valuation methods and R application.
	Zhejiang University	Undergraduate	Calculus 1	<b>80/100</b>		Function limits and continuity, differential calculus of one variable functions and its appliances, integral calculus of one variable functions and its appliances and infinite series.
	Zhejiang University	Undergraduate	Calculus 2	<b>74/100</b>		Vector Algebra and Analytic Geometry in Space, Differential Calculus of Multivariable Functions and its Applications, Double integral.
	Zhejiang University	Undergraduate	Calculus 3	<b>71/100</b>		Integral Calculus of Multivariable Scalar Functions, line and surface integrals of the first type and the second type, Fourier Series.
	Zhejiang University	Undergraduate	Linear Algebra	<b>71/100</b>		The theory of solving linear equations, matrix, linear space, linear transformation and quadratic form.

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	Zhejiang University	Undergraduate	Probability and Mathematical Statistics	<b>89/100</b>		Events and probability, random variables and their distributions, the numeric characters of random variables, the law of large numbers, and the central limit theorem, statistical quantities and sampling distribution, the point estimation and interval estimation of parameters, the hypothesis testing of parameters and the fitting testing of probability distribution, variance analysis and regression analysis.
	Zhejiang University	Undergraduate	Ordinary Differential Equations	<b>93/100</b>		First-Order Differential Equations and Higher Order Linear Equations and linear Systems.

**Notes:**

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- b) insert any notes here
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- d) insert any notes here

## Description of Academic Background

### Sample of Columbian University

Name:     Your Name Here    

Application ID#:     1234567    

Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is or Title of Course	Original Grade from Transcript	ECON Dept. INTERNAL USE ONLY	Simple Course Description or Topics Covered
	Universidad de Antioquia	Undergraduate	Mathematics I	4.2/5.0		Elements of logic, sets and arithmetic. Elements of algebra. Inequalities, absolute value and functions. Limits and continuity
	Universidad de Antioquia	Undergraduate	Mathematics II	4.6/5.0		The derivative. The definite integral. Transcendental functions. Derivatives for functions of two variables,
	Universidad de Antioquia	Undergraduate	Mathematics III	4.6/5.0		Integration techniques and differential equations. Indeterminate forms and improper integrals. Infinite series
	Universidad de Antioquia	Undergraduate	Linear Algebra	4.5/5.0		Matrices and systems of linear equations. Vectors, spaces and subspaces. Orthogonal bases, eigenvalues and eigenvectors.
	Universidad de Antioquia	Undergraduate	Statistics I	4.9/5.0		Introduction to Descriptive Statistics. Fundamentals of Probability. Conditional Probability and Independence, Random variables, Expected Value, Random Vectors
	Universidad de Antioquia	Undergraduate	Math for economic analysis	4.2/5.0		Comparative Static Analysis, Optimization problems, Dynamic Analysis: Differential and difference equations.
	Universidad de Antioquia	Undergraduate	Statistics II	4.4/5.0		Sampling distributions, Stochastic convergence Point estimation theory Hypothesis testing Linear regression
	Universidad de Antioquia	Undergraduate	Econometrics I (Basic)	4.2/5.0		The multiple linear regression model, Diagnostic tests, The Generalized Linear Regression Model (GLS) Instrumental Variables (VI), Generalized Method of Moments (GMM), Discrete Dependent Variable Models
	Universidad de Antioquia	Undergraduate	Econometrics II (Intermediate)	4.2/5.0		Univariate time series, Multivariate time series, Panel Data
	Universidad de Antioquia	Undergraduate	Microeconometrics	4.4/5.0		Linear models for panel data, Truncation and censoring, Count data models, Generalized Method of Moments
	Universidad de Antioquia	Undergraduate	Introductory Economics	3.5/5.0		Object and method of economics. Basic microeconomic aspects. The State in a mixed economy. Basic macroeconomic aspects.
	Universidad de Antioquia	Undergraduate	Principles of Microeconomics	4.6/5.0		Consumer theory Production theory Market equilibrium

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	Universidad de Antioquia	Undergraduate	Microeconomics I	<b>4.6/5.0</b>		Monopoly, regulation, price discrimination, entry deterrence models. The organization of firms. Institutions. Market regulation. Factors market. Strategic interdependence: Game theory and oligopoly.
	Universidad de Antioquia	Undergraduate	Principles of Macroeconomics	<b>4.1/5.0</b>		Macroeconomics, macroeconomic aggregates and measurement of economic cycles. An intertemporal real macroeconomic model of a closed economy. Money, prices and monetary policy. A Keynesian rigid-price model of a closed economy. The Mundell - Fleming model. Inflation, Phillips curve and Central Bank commitments.
	Universidad de Antioquia	Undergraduate	Macroeconomics I	<b>4.2/5.0</b>		Microeconomic fundamentals of aggregate demand. Government and fiscal policy. The closed economy. Long-term growth.
	Universidad de Antioquia	Undergraduate	Microeconomics II	<b>4.4/5.0</b>		General Equilibrium, Externalities, Public Goods, Choice under Uncertainty, Markets with Asymmetric Information, Public Choice
	Universidad de Antioquia	Undergraduate	Game Theory	<b>4.0/5.0</b>		Analysis of the strategic form and applications. Nash equilibrium refinements. Incomplete information.
	Universidad de Antioquia	Undergraduate	Macroeconomics II	<b>4.6/5.0</b>		Open Macroeconomics. Topics of Monetary Policy: the determination of the money supply and the transmission mechanisms of the Monetary Policy. Exchange rate regimes for Emerging Economies. Financial crises in Emerging Economies
	Universidad de Antioquia	Undergraduate	Macroeconomics III	<b>4.2/5.0</b>		Problems of Macroeconomic Policy, Public Finance (Taxation Theory),
	Universidad de los Andes	Graduate	Real Analysis	<b>4.6/5.0</b>		Metric spaces, Topology of $R^k$ , Continuity and convex analysis, Constrained and unconstrained maximization
	Universidad del Rosario	Graduate	Advanced Econometrics	<b>4.6/5.0</b>		Fixed point theory, Simple linear regression model. Introduction to univariate time series analysis and cointegration. Simultaneous equation models. Programming in Stata and R
	Universidad del Rosario	Graduate	Advanced Microeconomics	<b>4.4/5.0</b>		Consumer and firm theory, General equilibrium Adverse selection Information asymmetries, Problems of Macroeconomic Policy, Public Finance (Taxation Theory)

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	Universidad del Rosario	Graduate	Advanced Macroeconomics	4.8/5.0		Dynamic and stochastic models in recursive language, Business cycle model Labor market rigidities Money utility model Monetary policy
	Universidad del Rosario	Graduate	Advanced Game Theory	4.6/5.0		Static games with complete information, Imperfect competition, Dynamic games with perfect and imperfect information., Nash equilibrium refinements.
	Universidad de Antioquia	Undergraduate	Mathematics I	4.2/5.0		Elements of logic, sets and arithmetic. Elements of algebra. Inequalities, absolute value and functions. Limits and continuity

#### Notes:

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- d) insert any notes here

## Description of Academic Background

### Sample of Indian University

Name: \_\_\_\_\_

Application ID#: \_\_\_\_\_

Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is	Grade	ECON Dept. INTERNAL USE ONLY	Simple Course Description
2352401	University of Delhi	Undergrad	Linear Algebra	91/100		Eigenspace, Matrix diagonalization, Solving system of equations, Linear transformation
2352301	University of Delhi	Undergrad	Calculus	94/100		Functions of several variables, Partial derivatives, Extreme values, Saddle points
2271102	University of Delhi	Undergrad	Mathematical Methods for Economics 1	75/100		Functions of one real variable, Single-variable optimization, Integration of functions, Difference equations
2271202	University of Delhi	Undergrad	Mathematical Methods for Economics 2	75/100		Differential equations, Linear algebra, Functions of several real variables, Multivariable optimization
2271201	University of Delhi	Undergrad	Statistical Methods in Economics 1	90/100		Elementary Probability Theory, Random Variables and Probability Distributions, Random Sampling and Jointly Distributed, Random Variables
2271303	University of Delhi	Undergrad	Statistical Methods in Economics 2	94/100		Simple Linear Regression, Point and Interval Estimation, Hypothesis Testing
2271403	University of Delhi	Undergrad	Introductory Econometrics	89/100		Gauss - Markov Theorem, Forecasting, Multicollinearity, Heteroscedasticity, Auto-correlation, Specification Analysis
2271302	University of Delhi	Undergrad	Microeconomics 1	80/100		Consumer Theory, Production, Costs and Perfect Competition
2271402	University of Delhi	Undergrad	Microeconomics 2	90/100		General Equilibrium, Efficiency and Welfare, Market Structure and Game Theory, Externalities, public goods and markets with asymmetric information
2271301	University of Delhi	Undergrad	Macroeconomics 1	83/100		Closed Economy in the Short Run, Aggregate Demand & Aggregate Supply, Inflation, Unemployment and Expectations, Open Economy Models
2271401	University of Delhi	Undergrad	Macroeconomics 2	90/100		Closed Economy in the Short Run, Aggregate Demand & Aggregate Supply, Inflation, Unemployment and Expectations, Open Economy Models
001	University of Delhi	Undergrad	Microeconomic Theory	78/100		Prices, Markets and Efficiency, Choice theory and Consumer Demand, Production, Costs and the Firm, Monopoly, Choice under Uncertainty, General Equilibrium Analysis, Welfare Economics, Market Failures
002	University of Delhi	Undergrad	Introductory Mathematical Economics	62/100		Multivariable Calculus, Metric Spaces, Multivariable Optimization, Envelope Theorem, Systems of linear equations, Inner product spaces, Eigenvalues and eigenvectors

## Description of Academic Background

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Name: \_\_\_\_\_

Application ID#: \_\_\_\_\_

Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is	Grade	ECON Dept. INTERNAL USE ONLY	Simple Course Description
003	University of Delhi	Undergrad	Introductory Econometrics	70/100		Probability Theory, Distributions, Convergence of Random Variables, Hypothesis Testing, Matrix Regression Basics and Extensions
005	University of Delhi	Undergrad	Introduction to Game Theory	62/100		Games in Strategic and Extensive Form, Repeated Games, Static and Dynamic Games of Incomplete Information, Information Economics
101	University of Delhi	Undergrad	Mathematical Economics	62/100		Topology Theory, Applications of Topology in Economics
103	University of Delhi	Undergrad	Game Theory 1	73/100		Bayesian Games, Mechanism Design, Advanced Topics
401	University of Delhi	Undergrad	Econometric Methods	69/100		Nonlinear, Semiparametric and Nonparametric Regression Models, Instrumental Variables Estimation, Systems of Equations, Discrete Choice Models, Limited Dependent Variables
407	University of Delhi	Undergrad	Structural Modelling for Policy Analysis	60/100		Rubin's Causal Framework, Causal Inference, Instrumental Variables, Differences-In-Differences, Regression Discontinuity Design, Panel Data Models

#### Notes:

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- d) insert any notes here

## Description of Academic Background

### Sample of university in Mexico

Name: \_\_\_\_\_

Application ID#: \_\_\_\_\_

Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is or Title of Course	Original Grade from Transcript	ECON Dept. INTERNAL USE ONLY	Simple Course Description or Topics Covered
	ITAM	Undergraduate	Matrix Algebra	<b>8/10</b>		Geometry and algebra of vectors. Matrices and linear transformations. Eigenvalues of symmetric matrices. Vector-valued functions and functions of several variables. Simplex method. Markov chains. Input-output model.
	ITAM	Undergraduate	Mathematical Methods for Economics	<b>10/10</b>		The actual course I took was graduate-level Optimization and Dynamical System. Validated for this required course. I covered systems of linear differential equations with constant coefficients. Calculus of variations: Euler equation, transversality conditions, infinite planning horizon, constrained problems. Optimal control theory: maximum principle. Bellman equation.
	ITAM	Undergraduate	Mathematical Analysis I	<b>8/10</b>		Graduate-level. Real analysis: sequences and series, limits, continuous functions, derivatives, integrals. Basic point set topology. Continuous functions and convergence in metric spaces; compact metric spaces.
	ITAM	Undergraduate	Probability	<b>10/10</b>		Counting. Axioms of probability. Conditioning and independence. Expectation and variance. Discrete and continuous random variables and distributions. Joint distributions and dependence.
	ITAM	Undergraduate	Statistical Inference	<b>8/10</b>		Central limit theorem. Techniques for organizing data, computing, and interpreting measures of central tendency, variability, and association. Estimation, confidence intervals, tests of hypotheses, t-tests, correlation.
	ITAM	Undergraduate	Applied Macroeconometrics	<b>10/10</b>		Asymptotic theory. Stochastic processes and concepts such as stationarity and ergodicity. Inference with heteroskedastic and autocorrelated time series; autoregressive and moving average models; unit root processes and asymptotic analysis of such; vector autoregressive models; cointegration; forecasting; ARCH and GARCH volatility models.
	ITAM	Undergraduate	Applied Microeconometrics	<b>10/10</b>		Analysis of randomized experiments. Identification and estimation of treatment effects. Instrumental variables. Difference in differences. Nonlinear models.

## Description of Academic Background

### Sample of university in Mexico

Name: \_\_\_\_\_

Application ID#: \_\_\_\_\_

Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is or Title of Course	Original Grade from Transcript	ECON Dept. INTERNAL USE ONLY	Simple Course Description or Topics Covered
	ITAM	Undergraduate	Econometrics	<b>6/10</b>		The actual course I took was graduate-level and it was called theoretical foundations for Econometrics, validated for Econometrics
	ITAM	Undergraduate	Advanced Microeconomics I	<b>10/10</b>		Theory of the consumer and the implications of constrained maximization; uses of indirect utility and expenditure functions; theory of the producer, profit maximization, and cost minimization; behavior under uncertainty; partial equilibrium analysis and introduction to models of general equilibrium.
	ITAM	Undergraduate	Advanced Microeconomics II	<b>10/10</b>		Mechanism design with transfers. Allocation rules. Social choice functions and mechanisms. Vickrey- Clarke-Groves mechanism. Dominant strategy incentive compatibility and Bayesian incentive compatibility. Optimal auction design.
	ITAM	Undergraduate	Advanced Macroeconomics	<b>10/10</b>		Graduate-level. Intertemporal consumption: models with and without uncertainty, permanent income hypothesis, random walk hypothesis. General equilibrium. Economic growth: Solow and neoclassical models. Real business cycle and new Keynesian models: business cycle fluctuations, inflation dynamics, the effects of monetary and fiscal policy, and optimal policy.
	ITAM	Undergraduate	Calculus II	<b>10/10</b>		Differential calculus, introduction to optimization, analytical geometry.
	ITAM	Undergraduate	Calculus III	<b>10/10</b>		Integration techniques, Riemann sums, the Fundamental Theorem of Calculus, improper integrals, L'hospital Rule, Multiple integration, sequences and series.
	ITAM	Undergraduate	International Economics II	<b>10/10</b>		Foundations of international Macroeconomics, dynamic programming using Matlab, real intertemporal trade models, genera equilibrium models under different monetary conditions
	ITAM	Undergraduate	Political Economy	<b>9/10</b>		Graduate-level. Theoretical foundations of social choice models. Downs- Hoteling model with different numbers of candidates and multiple

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### Sample of university in Mexico

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						dimensions, and the Romer-Rosenthal model. Revisions of empirical work on political economy.
	ITAM	Undergraduate	Statistical Inference	<b>8/10</b>		Central limit theorem. Techniques for organizing data, computing, and interpreting measures of central tendency, variability, and association. Estimation, confidence intervals, tests of hypotheses, t-tests, correlation. Measures of central tendency.

**Notes:**

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- b) insert any notes here
- c) insert any notes here
- d) insert any notes here

## Description of Academic Background

### Sample of South Korean University

Name: \_\_\_\_\_

Application ID#: \_\_\_\_\_

Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is	Grade	ECON Dept. INTERNAL USE ONLY	Simple Course Description
MEC 10001	Handong Global University	Undergraduate	Introduction to Economics	A+		<i>Information is needed here, don't leave blank</i>
212.501 001	Seoul National University	Undergraduate	Studies in Microeconomics	A-		<i>Information is needed here, don't leave blank</i>
212.502 001	Seoul National University	Undergraduate	Studies in Macroeconomics	A		<i>Information is needed here, don't leave blank</i>
212.656 001	Seoul National University	Undergraduate	Studies in Economic Growth	A+		<i>Information is needed here, don't leave blank</i>
212.703 001	Seoul National University	Undergraduate	Studies in Econometrics	A		<i>Information is needed here, don't leave blank</i>
212.661 001	Seoul National University	Undergraduate	Studies in Applied Macroeconomics	A		<i>Information is needed here, don't leave blank</i>
212.705 001	Seoul National University	Undergraduate	Topics in Macroeconomics	A+		Business Cycles and Heterogeneous Agents Macro Models
212.684 001	Seoul National University	Undergraduate	Topics in Applied Microeconomics	A+		<i>Information is needed here, don't leave blank</i>
M1314.002400 001	Seoul National University	Undergraduate	Recent Trends in Macroeconomics	S		<i>Information is needed here, don't leave blank</i>
212.654 001	Seoul National University	Undergraduate	Studies in International Monetary Economics	A+		<i>Information is needed here, don't leave blank</i>
GEK 10081	Handong Global University	Undergraduate	Calculus 2	S		<i>Information is needed here, don't leave blank</i>
GEK 10018	Handong Global University	Undergraduate	Differential Equation	A+		<i>Information is needed here, don't leave blank</i>
GEK 10014	Handong Global University	Undergraduate	Engineering Mathematics	A		<i>Information is needed here, don't leave blank</i>
GEK 10083	Handong Global University	Undergraduate	Visual Mathematics	A+		<i>Information is needed here, don't leave blank</i>

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881.007 001	Seoul National University	Undergraduate	Linear Algebra	A+		<i>Information is needed here, don't leave blank</i>
212.503 001	Seoul National University	Undergraduate	Studies in Statistics for Economists	A+		<i>Information is needed here, don't leave blank</i>
881.008.001	Seoul National University	Undergraduate	Mathematical Analysis	A		<i>Information is needed here, don't leave blank</i>

#### Notes

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## Description of Academic Background

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Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is	Grade	ECON Dept. INTERNAL USE ONLY	Simple Course Description
Mathematics for Economists I	Bilkent University	Graduate	Real Analysis	B-		The elements of real analysis; Convex Functions
Mathematics for Economists II	Bilkent University	Graduate	Would need to add information here	B		Optimization in economic theory; A first course in optimization theory
Probability and Statistics I	Bilkent University	Graduate	Would need to add information here	A-		Statistical Inference
Probability and Statistics II	Bilkent University	Graduate	Econometrics	B+		Econometrics
Macroeconomic Theory I	Bilkent University	Graduate	Would need to add information here	B+		Recursive methods in Economic Dynamics; Introduction to modern economic growth
Macroeconomic Theory I	Bilkent University	Graduate	Macroeconomics	A		Macroeconomics
Microeconomic Theory I	Bilkent University	Graduate	Microeconomics	B+		Microeconomic Theory
Microeconomic Theory I	Bilkent University	Graduate	Game Theory	B+		A Course in Game Theory; Auction Theory
Economics of Labor Market	Bilkent University	Graduate	Econometrics and Labor Economics	N/A		Econometrics and Labor Economics

**Description of Academic Background**  
**Sample of Turkish University**

Name: \_\_\_\_\_

Application ID#: \_\_\_\_\_

Course and Number from official transcript	Name of College or University where course was taken	Course Level	What the Course is	Grade	ECON Dept. INTERNAL USE ONLY	Simple Course Description

**Notes:**

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**Description of Academic Background**  
**Sample of United States of America University**

Name: \_\_\_\_\_

Application ID#: \_\_\_\_\_

Course and Number from official transcript	College or University where course was taken	Course Level	What the Course is	Grade	ECON Dept. INTERNAL USE ONLY	Simple Course Description
ECON 1	UC Santa Barbara	Undergraduate	Intro. Microeconomics	<b>B+</b>		An introduction to microeconomic analysis.
ECON 2	UC Santa Barbara	Undergraduate	Intro. Macroeconomics	<b>A</b>		An introduction to macroeconomic analysis
ECON 5	UC Santa Barbara	Undergraduate	Statistics for Economics	<b>A</b>		An introduction to probalistic modeling and statistical inference applied to the analysis of economic data for students with basic knowledge of calculus. Topics include: probability, discrete & continuous random variables, probability distributions, mean, variance, correlation, sampling, parameter estimation, unbiasedness and efficiency, confidence intervals, hypothesis testing.
ECON 10A	UC Santa Barbara	Undergraduate	Intermediate Microeconomics I	<b>A-</b>		Economic theory relating to demand, production, and competitive product markets with emphasis on applications of theory.
ECON 100B	UC Santa Barbara	Undergraduate	Intermediate Microeconomics II	<b>A</b>		Economic theory relating to imperfectly competitive product markets, input market, and welfare, with emphasis on applications. Includes an introduction to game theory.
ECON 101	UC Santa Barbara	Undergraduate	Intermediate Macroeconomics	<b>A-</b>		Contemporary analysis of income, employment, price level, and public policy using static general equilibrium framework with emphasis on applications of theory. Long term economic growth is also covered.
ECON 140A	UC Santa Barbara	Undergraduate	Introduction to Econometrics I	<b>B+</b>		Estimation and hypothesis testing in classical linear regression models as well as violations of each classical assumption. Discrete dependent variable models and systems of simultaneous equation are also covered.
ECON 140B	UC Santa Barbara	Undergraduate	Introduction to Econometrics II	<b>A</b>		Topics in econometrics including regression specification, time series econometrics, panel data, and instrumental variables.
ECON 171	UC Santa Barbara	Undergraduate	Introduction to Game Theory	<b>A</b>		A rigorous study of strategic interaction. Topics include normal and extensive form games, existence and uniqueness of equilibrium, randomization, minimax, dynamics and equilibrium selection, auctions and bargaining, principle-agent incentives, voting, private

## Description of Academic Background

### Sample of United States of America University

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						contributions to public goods, oligopoly competition, market entry and burning money, wars of attrition.
ECON 205A	UC Santa Barbara	Graduate	Microeconomic Theory I	A-		Presents the basic concepts of Microeconomics with a focus on applications. It covers consumer theory, including choice under uncertainty, intertemporal choice, market equilibrium, and information technology.
ECON 205B	UC Santa Barbara	Graduate	Microeconomic Theory II	A		Presents the basic concepts of microeconomics with a focus on applications. It covers producer theory, market structures, asymmetric information, strategic decision making, externalities, and public goods.
ECON 208	UC Santa Barbara	Graduate	Topics in Macroeconomic Theory and Policy	B+		Keynesian, New-Classical, and New-Keynesian theory of income determination, and policy prescriptions thereof. Additional topics include rational expectations, policy effectiveness, introduction to the intertemporal approach in macroeconomics, modern business cycle theory, and theory & evidence on econ growth.
ECON 240A	UC Santa Barbara	Graduate	Introduction to Probability and Statistics for Econometrics	A		Review of probability and statistics with focus on the tools needed for regression theory. Univariate and multivariate distributions. Hypothesis testing.
ECON 240B	UC Santa Barbara	Graduate	Econometric Methods	A+		Application of multiple regression and related techniques. Estimation and hypothesis testing. Extensions (varies) to ARMA models, instrumental variables, and limited dependent variable models. Monte Carlo simulation.
ECON 240C	UC Santa Barbara	Graduate	Econometrics with an Emphasis on Time Series and Forecasting	A+		Time series econometrics with an emphasis on business forecasting. Study of various methods of econometric forecasting including statistical decision theory, Box- Jenkins, adaptive methods, single and simultaneous structural equation models.
MATH3A	UC Santa Barbara	Undergraduate	Calculus with Applications (Calc I)	B		Differential Calculus including analytic geometry, functions and limits, derivatives, techniques and applications of differentiation; introduction to integration; logarithmic and trigonometric functions.

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MATH 3B	UC Santa Barbara	Undergraduate	Calculus with Applications ( <b>Calc II</b> )	<b>A</b>		Integral calculus including definite and indefinite integrals, techniques of integration; introduction to sequences and series; with applications in mathematics and physics.
MATH 6A	UC Santa Barbara	Undergraduate	Vector Calculus ( <b>Calc III</b> )	<b>A</b>		Calculus of functions of several variables, vector valued functions of one variable, derivative and integrals of vector functions, double and triple integrals, properties and applications of integrals, change of variables.
MATH 108A	UC Santa Barbara	Undergraduate	Introduction to Linear Algebra	<b>A</b>		Abstract vector spaces and subspaces. Span and linear independence. Basis and dimension. Linear maps. Eigenvalues and eigenvectors.
MATH 118A	UC Santa Barbara	Undergraduate	Introduction to Real Analysis	<b>A</b>		The real number system, elements of set theory, continuity, differentiability, Riemann integral, implicit function theorems, convergence processes, and special topics.

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