# Journal of Economic Literature (JEL) Classification System (Updated 11/2011)

# **Subject Categories**

- A General Economics and Teaching
- B History of Economic Thought, Methodology, and Heterodox Approaches
- C Mathematical and Quantitative Methods
- D Microeconomics
- **E** Macroeconomics and Monetary Economics
- F International Economics
- G Financial Economics
- **H** Public Economics
- I Health, Education, and Welfare
- J Labor and Demographic Economics
- K Law and Economics
- L Industrial Organization
- M Business Administration and Business Economics; Marketing; Accounting
- N Economic History
- O Economic Development, Technological Change, and Growth
- P Economic Systems
- O Agricultural and Natural Resource Economics; Environmental and Ecological Economics
- R Urban, Rural, and Regional Economics
- Y Miscellaneous Categories
- Z Other Special Topics

# Full List of Classifications

- A General Economics and Teaching
  - A1 General Economics
    - A10 General
    - A11 Role of Economics; Role of Economists; Market for Economists
    - A12 Relation of Economics to Other Disciplines
    - A13 Relation of Economics to Social Values
    - A14 Sociology of Economics
    - A19 Other
  - A2 Economic Education and Teaching of Economics
    - A20 General
    - A21 Pre-college
    - A22 Undergraduate
    - A23 Graduate
    - A29 Other
  - A3 Collective Works
    - A30 General
    - A31 Collected Writings of Individuals
    - A32 Volumes
    - A33 Handbooks
    - A39 Other

# B - History of Economic Thought, Methodology, and Heterodox Approaches

#### B0 - General

B00 - General

## B1 - History of Economic Thought through 1925

- B10 General
- B11 Preclassical (Ancient, Medieval, Mercantilist, Physiocratic)
- B12 Classical
- B13 Neoclassical through 1925 (Austrian, Marshallian, Walrasian, Stockholm School)
- B14 Socialist: Marxist
- B15 Historical; Institutional; Evolutionary
- B16 History of Economic Thought: Quantitative and Mathematical
- B19 Other

# B2 - History of Economic Thought since 1925

- B20 General
- **B21** Microeconomics
- **B22 Macroeconomics**
- B23 History of Economic Thought: Econometrics; Quantitative and

**Mathematical Studies** 

- B24 Socialist; Marxist; Sraffian
- B25 Historical; Institutional; Evolutionary; Austrian
- **B26 Financial Economics**
- B29 Other

## B3 - History of Economic Thought: Individuals

- B30 General
- B31 Individuals
- B32 Obituaries

#### **B4** - Economic Methodology

- B40 General
- **B41** Economic Methodology
- B49 Other

## **B5** - Current Heterodox Approaches

- B50 General
- B51 Socialist; Marxian; Sraffian
- B52 Institutional; Evolutionary
- B53 Austrian
- **B54 Feminist Economics**
- B59 Other

## C - Mathematical and Quantitative Methods

- C0 General
  - C00 General
  - C01 Econometrics
  - C02 Mathematical Methods

#### C1 - Econometric and Statistical Methods and Methodology: General

- C10 General
- C11 Bayesian Analysis: General

- C12 Hypothesis Testing: General
- C13 Estimation: General
- C14 Semiparametric and Nonparametric Methods: General
- C15 Statistical Simulation Methods: General
- C18 Methodological Issues: General
- C19 Other

## C2 - Single Equation Models; Single Variables

- C20 General
- ${\tt C21-Cross-Sectional\ Models; Spatial\ Models; Treatment\ Effect\ Models; Quantile\ Regressions}$
- C22 Time-Series Models; Dynamic Quantile Regressions; Dynamic Treatment Effect Models (Updated!)
- C23 Models with Panel Data; Longitudinal Data; Spatial Time Series
- C24 Truncated and Censored Models; Switching Regression Models
- C25 Discrete Regression and Qualitative Choice Models; Discrete Regressors; Proportions
- C26 Instrumental Variables (IV) Estimation
- C29 Other

# C3 - Multiple or Simultaneous Equation Models; Multiple Variables

- C30 General
- C31 Cross-Sectional Models; Spatial Models; Treatment Effect Models; Quantile Regressions; Social Interaction Models
- C32 Time-Series Models; Dynamic Quantile Regressions; Dynamic Treatment Effect Models (Updated!)
- C33 Models with Panel Data; Longitudinal Data; Spatial Time Series
- C34 Truncated and Censored Models; Switching Regression Models
- C35 Discrete Regression and Qualitative Choice Models; Discrete Regressors; Proportions
- C36 Instrumental Variables (IV) Estimation
- C38 Classification Methods; Cluster Analysis; Factor Models
- C39 Other

#### C4 - Econometric and Statistical Methods: Special Topics

- C40 General
- C41 Duration Analysis; Optimal Timing Strategies
- C43 Index Numbers and Aggregation
- C44 Statistical Decision Theory; Operations Research
- C45 Neural Networks and Related Topics
- C46 Specific Distributions; Specific Statistics
- C49 Other

#### C5 - Econometric Modeling

- C50 General
- C51 Model Construction and Estimation
- C52 Model Evaluation, Validation, and Selection
- C53 Forecasting Models; Simulation Methods
- C54 Quantitative Policy Modeling
- C58 Financial Econometrics
- C59 Other

# C6 - Mathematical Methods; Programming Models; Mathematical and Simulation Modeling

- C60 General
- C61 Optimization Techniques; Programming Models; Dynamic Analysis
- C62 Existence and Stability Conditions of Equilibrium
- C63 Computational Techniques; Simulation Modeling
- C65 Miscellaneous Mathematical Tools
- C67 Input-Output Models
- C68 Computable General Equilibrium Models
- C69 Other

# C7 - Game Theory and Bargaining Theory

- C70 General
- C71 Cooperative Games
- C72 Noncooperative Games
- C73 Stochastic and Dynamic Games; Evolutionary Games; Repeated Games
- C78 Bargaining Theory; Matching Theory
- C79 Other

## C8 - Data Collection and Data Estimation Methodology; Computer Programs

- C80 General
- C81 Methodology for Collecting, Estimating, and Organizing Microeconomic
- Data; Data Analysis
- C82 Methodology for Collecting, Estimating, and Organizing Macroeconomic
- Data; Data Analysis
- C83 Survey Methods; Sampling Methods
- C87 Econometric Software
- C88 Other Computer Software
- C89 Other

# C9 - Design of Experiments

- C90 General
- C91 Laboratory, Individual Behavior
- C92 Laboratory, Group Behavior
- C93 Field Experiments
- C99 Other

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# D - Microeconomics

#### D0 - General

- D00 General
- D01 Microeconomic Behavior: Underlying Principles
- D02 Institutions: Design, Formation, and Operations
- D03 Behavioral Economics; Underlying Principles
- D04 Microeconomic Policy: Formulation; Implementation; Evaluation

# D1 - Household Behavior and Family Economics

- D10 General
- D11 Consumer Economics: Theory
- D12 Consumer Economics: Empirical Analysis
- D13 Household Production and Intrahousehold Allocation
- D14 Personal Finance
- D18 Consumer Protection
- D19 Other

#### D2 - Production and Organizations

- D20 General
- D21 Firm Behavior: Theory
- D22 Firm Behavior: Empirical Analysis
- D23 Organizational Behavior; Transaction Costs; Property Rights
- D24 Production; Cost; Capital, Total Factor, and Multifactor Productivity;
- Capacity
- D29 Other

## D3 - Distribution

- D30 General
- D31 Personal Income, Wealth, and Their Distributions
- D33 Factor Income Distribution
- D39 Other

#### D4 - Market Structure and Pricing

- D40 General
- **D41** Perfect Competition
- D42 Monopoly
- D43 Oligopoly and Other Forms of Market Imperfection
- D44 Auctions
- D45 Rationing; Licensing
- D46 Value Theory
- D49 Other

## D5 - General Equilibrium and Disequilibrium

- D50 General
- D51 Exchange and Production Economies
- D52 Incomplete Markets
- D53 Financial Markets
- D57 Input-Output Tables and Analysis
- D58 Computable and Other Applied General Equilibrium Models
- D59 Other

#### D6 - Welfare Economics

- D60 General
- D61 Allocative Efficiency; Cost-Benefit Analysis
- D62 Externalities
- D63 Equity, Justice, Inequality, and Other Normative Criteria and Measurement
- D64 Altruism
- D69 Other

# D7 - Analysis of Collective Decision-Making

- D70 General
- D71 Social Choice; Clubs; Committees; Associations
- D72 Political Processes: Rent-Seeking, Lobbying, Elections, Legislatures, and
- **Voting Behavior**
- D73 Bureaucracy; Administrative Processes in Public Organizations; Corruption
- D74 Conflict; Conflict Resolution; Alliances
- D78 Positive Analysis of Policy-Making and Implementation
- D79 Other

# D8 - Information, Knowledge, and Uncertainty

- D80 General
- D81 Criteria for Decision-Making under Risk and Uncertainty
- D82 Asymmetric and Private Information
- D83 Search; Learning; Information and Knowledge; Communication; Belief
- D84 Expectations; Speculations
- D85 Network Formation and Analysis: Theory
- D86 Economics of Contract: Theory
- D87 Neuroeconomics
- D89 Other

## D9 - Intertemporal Choice and Growth

- D90 General
- D91 Intertemporal Consumer Choice; Life Cycle Models and Saving
- D92 Intertemporal Firm Choice and Growth, Financing, Investment, and Capacity
- D99 Other

## E - Macroeconomics and Monetary Economics

- E0 General
  - E00 General
  - E01 Measurement and Data on National Income and Product Accounts and
  - Wealth; Environmental Accounts
  - E02 Institutions and the Macroeconomy

## E1 - General Aggregative Models

- E10 General
- E11 Marxian; Sraffian; Institutional; Evolutionary
- E12 Keynes; Keynesian; Post-Keynesian
- E13 Neoclassical
- E17 Forecasting and Simulation: Models and Applications
- E19 Other

## E2 - Macroeconomics: Consumption, Saving, Production, Employment, and Investment

- E20 General
- E21 Consumption; Saving; Wealth
- E22 Capital; Investment; Capacity
- E23 Production
- E24 Employment; Unemployment; Wages; Intergenerational Income
- Distribution; Aggregate Human Capital
- E25 Aggregate Factor Income Distribution
- E26 Informal Economy; Underground Economy
- E27 Forecasting and Simulation: Models and Applications
- E29 Other

## E3 - Prices, Business Fluctuations, and Cycles

- E30 General
- E31 Price Level; Inflation; Deflation
- E32 Business Fluctuations; Cycles
- E37 Forecasting and Simulation: Models and Applications
- E39 Other

#### E4 - Money and Interest Rates

- E40 General
- E41 Demand for Money

- E42 Monetary Systems; Standards; Regimes; Government and the Monetary System: Payment Systems
- E43 Interest Rates: Determination, Term Structure, and Effects
- E44 Financial Markets and the Macroeconomy
- E47 Forecasting and Simulation: Models and Applications
- E49 Other
- E5 Monetary Policy, Central Banking, and the Supply of Money and Credit
  - E50 General
  - E51 Money Supply; Credit; Money Multipliers
  - E52 Monetary Policy
  - E58 Central Banks and Their Policies
  - E59 Other
- E6 Macroeconomic Policy, Macroeconomic Aspects of Public Finance, and General Outlook
  - E60 General
  - E61 Policy Objectives; Policy Designs and Consistency; Policy Coordination
  - E62 Fiscal Policy
  - E63 Comparative or Joint Analysis of Fiscal and Monetary Policy; Stabilization;
  - **Treasury Policy**
  - E64 Incomes Policy; Price Policy
  - E65 Studies of Particular Policy Episodes
  - E66 General Outlook and Conditions
  - E69 Other

#### F - International Economics

- F0 General
  - F00 General
  - F01 Global Outlook
  - F02 International Economic Order
- F1 Trade
  - F10 General
  - F11 Neoclassical Models of Trade
  - F12 Models of Trade with Imperfect Competition and Scale Economies
  - F13 Trade Policy; International Trade Organizations
  - F14 Country and Industry Studies of Trade
  - F15 Economic Integration
  - F16 Trade and Labor Market Interactions
  - F17 Trade Forecasting and Simulation
  - F18 Trade and Environment
  - F19 Other
- F2 International Factor Movements and International Business
  - F20 General
  - F21 International Investment; Long-Term Capital Movements
  - F22 International Migration
  - F23 Multinational Firms: International Business
  - F24 Remittances
  - F29 Other
- F3 International Finance

- F30 General
- F31 Foreign Exchange
- F32 Current Account Adjustment; Short-Term Capital Movements
- F33 International Monetary Arrangements and Institutions
- F34 International Lending and Debt Problems
- F35 Foreign Aid
- F36 Financial Aspects of Economic Integration
- F37 International Finance Forecasting and Simulation: Models and Applications
- F39 Other

## F4 - Macroeconomic Aspects of International Trade and Finance

- F40 General
- F41 Open Economy Macroeconomics
- F42 International Policy Coordination and Transmission
- F43 Economic Growth of Open Economies
- F44 International Business Cycles
- F47 Forecasting and Simulation: Models and Applications
- F49 Other

## F5 - International Relations and International Political Economy

- F50 General
- F51 International Conflicts; Negotiations; Sanctions
- F52 National Security; Economic Nationalism
- F53 International Agreements and Observance; International Organizations
- F54 Colonialism; Imperialism; Postcolonialism
- F55 International Institutional Arrangements
- F59 International Relations and International Political Economy: Other

#### G - Financial Economics

- G0 General
  - G00 General
  - G01 Financial Crises
  - G02 Behavioral Finance: Underlying Principles (Updated!)

## G1 - General Financial Markets

- G10 General
- G11 Portfolio Choice; Investment Decisions
- G12 Asset Pricing; Trading volume; Bond Interest Rates
- G13 Contingent Pricing: Futures Pricing
- G14 Information and Market Efficiency; Event Studies
- G15 International Financial Markets
- G17 Financial Forecasting and Simulation
- G18 Government Policy and Regulation
- G19 Other

## G2 - Financial Institutions and Services

- G20 General
- G21 Banks; Other Depository Institutions; Micro Finance Institutions;

#### **Mortgages**

- G22 Insurance: Insurance Companies
- G23 Pension Funds: Other Private Financial Institutions
- G24 Investment Banking; Venture Capital; Brokerage; Ratings and Ratings Agencies

- G28 Government Policy and Regulation
- G29 Other

#### G3 - Corporate Finance and Governance

- G30 General
- G31 Capital Budgeting; Fixed Investment and Inventory Studies; Capacity
- G32 Financing Policy; Financial Risk and Risk Management; Capital and
- Ownership Structure; Value of Firms (Updated!)
- G33 Bankruptcy; Liquidation
- G34 Mergers; Acquisitions; Restructuring; Corporate Governance
- G35 Payout Policy
- G38 Government Policy and Regulation
- G39 Other

#### H - Public Economics

- H0 General
  - H00 General

#### H1 - Structure and Scope of Government

- H10 General
- H11 Structure, Scope, and Performance of Government
- H12 Crisis Management
- H19 Other

#### H2 - Taxation, Subsidies, and Revenue

- H20 General
- H21 Efficiency; Optimal Taxation
- H22 Incidence
- H23 Externalities: Redistributive Effects: Environmental Taxes and Subsidies
- H24 Personal Income and Other Nonbusiness Taxes and Subsidies
- H25 Business Taxes and Subsidies
- H26 Tax Evasion
- H27 Other Sources of Revenue
- H29 Other

#### H3 - Fiscal Policies and Behavior of Economic Agents

- H30 General
- H31 Household
- H32 Firm
- H39 Other

## H4 - Publicly Provided Goods

- H40 General
- H41 Public Goods
- H42 Publicly Provided Private Goods
- H43 Project Evaluation; Social Discount Rate
- H44 Publicly Provided Goods: Mixed Markets
- H49 Other

# H5 - National Government Expenditures and Related Policies

- H50 General
- H51 Government Expenditures and Health
- H52 Government Expenditures and Education
- H53 Government Expenditures and Welfare Programs

- H54 Infrastructures; Other Public Investment and Capital Stock
- H55 Social Security and Public Pensions
- H56 National Security and War
- H57 Procurement
- H59 Other

#### H6 - National Budget, Deficit, and Debt

- H60 General
- H61 Budget; Budget Systems
- H62 Deficit; Surplus
- H63 Debt; Debt Management; Sovereign Debt
- H68 Forecasts of Budgets, Deficits, and Debt
- H69 Other

## H7 - State and Local Government; Intergovernmental Relations

- H70 General
- H71 State and Local Taxation, Subsidies, and Revenue
- H72 State and Local Budget and Expenditures
- H73 Interjurisdictional Differentials and Their Effects
- H74 State and Local Borrowing
- H75 State and Local Government: Health; Education; Welfare; Public Pensions
- H76 State and Local Government: Other Expenditure Categories
- H77 Intergovernmental Relations; Federalism; Secession
- H79 Other

#### H8 - Miscellaneous Issues

- H80 General
- H81 Governmental Loans, Loan Guarantees, Credits, and Grants
- H82 Governmental Property
- H83 Public Administration; Public Sector Accounting and Audits
- H84 Disaster Aid (Updated!)
- H87 International Fiscal Issues; International Public Goods
- H89 Other

## I - Health, Education, and Welfare

#### 10 - General

100 - General

## I1 - Health

- I10 General
- I11 Analysis of Health Care Markets
- I12 Health Production
- I13 Health Insurance, Public and Private (Updated!)
- I14 Health and Inequality
- I15 Health and Economic Development
- I18 Government Policy; Regulation; Public Health
- I19 Other

## 12 - Education and Research Institutions

- I20 General
- I21 Analysis of Education
- 122 Educational Finance
- 123 Higher Education and Research Institutions
- I24 Education and Inequality

- 125 Education and Economic Development
- 128 Government Policy
- I29 Other

# 13 - Welfare and Poverty

- 130 General
- 131 General Welfare
- 132 Measurement and Analysis of Poverty
- 138 Government Policy; Provision and Effects of Welfare Programs
- 139 Other

## J - Labor and Demographic Economics

## 10 - General

- 100 General
- 101 Labor Economics: General
- 108 Labor Economics Policies

# J1 - Demographic Economics

- I10 General
- J11 Demographic Trends, Macroeconomic Effects, and Forecasts (Updated!)
- J12 Marriage; Marital Dissolution; Family Structure; Domestic Abuse
- J13 Fertility; Family Planning; Child Care; Children; Youth
- J14 Economics of the Elderly; Economics of the Handicapped; Non-Labor Market Discrimination
- J15 Economics of Minorities, Races, and Immigrants; Non-labor Discrimination (Updated!)
- J16 Economics of Gender; Non-labor Discrimination
- J17 Value of Life; Forgone Income
- 118 Public Policy
- J19 Other

## J2 - Demand and Supply of Labor

- J20 General
- J21 Labor Force and Employment, Size, and Structure
- J22 Time Allocation and Labor Supply
- J23 Labor Demand
- J24 Human Capital; Skills; Occupational Choice; Labor Productivity
- J26 Retirement; Retirement Policies
- 128 Safety: Job Satisfaction: Related Public Policy
- J29 Other

## J3 - Wages, Compensation, and Labor Costs

- J30 General
- J31 Wage Level and Structure; Wage Differentials
- J32 Nonwage Labor Costs and Benefits; Private Pensions
- J33 Compensation Packages; Payment Methods
- J38 Public Policy
- J39 Other

# J4 - Particular Labor Markets

- J40 General
- J41 Labor Contracts
- J42 Monopsony; Segmented Labor Markets
- J43 Agricultural Labor Markets

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J44 - Professional Labor Markets; Occupational Licensing
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- 145 Public Sector Labor Markets
- 147 Coercive Labor Markets
- J48 Public Policy
- J49 Other

#### 15 - Labor-Management Relations, Trade Unions, and Collective Bargaining

- 150 General
- J51 Trade Unions: Objectives, Structure, and Effects
- J52 Dispute Resolution: Strikes, Arbitration, and Mediation; Collective Bargaining
- 153 Labor-Management Relations; Industrial Jurisprudence
- J54 Producer Cooperatives; Labor Managed Firms; Employee Ownership
- 158 Public Policy
- 159 Other

## 16 - Mobility, Unemployment, and Vacancies

- 160 General
- J61 Geographic Labor Mobility; Immigrant Workers
- J62 Job, Occupational, and Intergenerational Mobility
- J63 Turnover; Vacancies; Layoffs
- J64 Unemployment: Models, Duration, Incidence, and Job Search
- 165 Unemployment Insurance; Severance Pay; Plant Closings
- 168 Public Policy
- J69 Other

## J7 - Labor Discrimination

- 170 General
- **I71** Discrimination
- 178 Public Policy
- J79 Other

# 18 - Labor Standards: National and International

- 180 General
- J81 Working Conditions
- **J82 Labor Force Composition**
- J83 Workers' Rights
- 188 Public Policy
- 189 Other

## K - Law and Economics

## K0 - General

K00 - General

#### K1 - Basic Areas of Law

- K10 General
- K11 Property Law
- K12 Contract Law
- K13 Tort Law and Product Liability
- K14 Criminal Law
- K19 Other

#### K2 - Regulation and Business Law

- K20 General
- K21 Antitrust Law
- K22 Corporation and Securities Law
- K23 Regulated Industries and Administrative Law
- K29 Other

#### K3 - Other Substantive Areas of Law

- K30 General
- K31 Labor Law
- K32 Environmental, Health, and Safety Law
- K33 International Law
- K34 Tax Law
- K35 Personal Bankruptcy Law
- K36 Family and Personal Law
- K39 Other

## K4 - Legal Procedure, the Legal System, and Illegal Behavior

- K40 General
- K41 Litigation Process
- K42 Illegal Behavior and the Enforcement of Law
- K49 Other

#### L - Industrial Organization

- LO General
  - L00 General

## L1 - Market Structure, Firm Strategy, and Market Performance

- L10 General
- L11 Production, Pricing, and Market Structure; Size Distribution of Firms
- L12 Monopoly; Monopolization Strategies
- L13 Oligopoly and Other Imperfect Markets
- L14 Transactional Relationships; Contracts and Reputation; Networks
- L15 Information and Product Quality; Standardization and Compatibility
- L16 Industrial Organization and Macroeconomics: Industrial Structure and Structural Change; Industrial Price Indices
- L17 Open Source Products and Markets
- L19 Other

## L2 - Firm Objectives, Organization, and Behavior

- L20 General
- L21 Business Objectives of the Firm
- L22 Firm Organization and Market Structure
- L23 Organization of Production
- L24 Contracting Out; Joint Ventures; Technology Licensing
- L25 Firm Performance: Size, Diversification, and Scope
- L26 Entrepreneurship
- L29 Other

## L3 - Nonprofit Organizations and Public Enterprise

- L30 General
- L31 Nonprofit Institutions; NGOs
- L32 Public Enterprises; Public-Private Enterprises
- ${\tt L33-Comparison\ of\ Public\ and\ Private\ Enterprises\ and\ Nonprofit\ Institutions;}$   ${\tt Privatization;\ Contracting\ Out}$

- L38 Public Policy
- L39 Other

#### L4 - Antitrust Issues and Policies

- L40 General
- L41 Monopolization; Horizontal Anticompetitive Practices
- L42 Vertical Restraints; Resale Price Maintenance; Quantity Discounts
- L43 Legal Monopolies and Regulation or Deregulation
- L44 Antitrust Policy and Public Enterprises, Nonprofit Institutions, and Professional Organizations
- L49 Other

## L5 - Regulation and Industrial Policy

- L50 General
- L51 Economics of Regulation
- L52 Industrial Policy; Sectoral Planning Methods
- L53 Enterprise Policy
- L59 Other

#### L6 - Industry Studies: Manufacturing

- L60 General
- L61 Metals and Metal Products; Cement; Glass; Ceramics
- L62 Automobiles; Other Transportation Equipment
- L63 Microelectronics; Computers; Communications Equipment
- L64 Other Machinery; Business Equipment; Armaments
- L65 Chemicals; Rubber; Drugs; Biotechnology
- L66 Food; Beverages; Cosmetics; Tobacco; Wine and Spirits
- L67 Other Consumer Nondurables: Clothing, Textiles, Shoes, and Leather
- L68 Appliances; Other Consumer Durables
- L69 Other

## L7 - Industry Studies: Primary Products and Construction

- L70 General
- L71 Mining, Extraction, and Refining: Hydrocarbon Fuels
- L72 Mining, Extraction, and Refining: Other Nonrenewable Resources
- L73 Forest Products
- L74 Construction
- L78 Government Policy
- L79 Other

## L8 - Industry Studies: Services

- L80 General
- L81 Retail and Wholesale Trade; e-Commerce
- L82 Entertainment; Media
- L83 Sports; Gambling; Recreation; Tourism
- L84 Personal, Professional, and Business Services
- L85 Real Estate Services
- L86 Information and Internet Services; Computer Software
- L87 Postal and Delivery Services
- L88 Government Policy
- L89 Other

# L9 - Industry Studies: Transportation and Utilities

- L90 General
- L91 Transportation: General
- L92 Railroads and Other Surface Transportation
- L93 Air Transportation
- L94 Electric Utilities
- L95 Gas Utilities; Pipelines; Water Utilities
- L96 Telecommunications
- L97 Utilities: General
- L98 Government Policy
- L99 Other

## M - Business Administration and Business Economics; Marketing; Accounting

#### M0 - General

M00 - General

## M1 - Business Administration

- M10 General
- M11 Production Management
- M12 Personnel Management; Executive Compensation
- M13 New Firms; Startups
- M14 Corporate Culture; Social Responsibility
- M15 IT Management
- M16 International Business Administration
- M19 Other

## M2 - Business Economics

- M20 General
- M21 Business Economics
- M29 Other

## M3 - Marketing and Advertising

- M30 General
- M31 Marketing
- M37 Advertising
- M38 Government Policy and Regulation
- M39 Other

## M4 - Accounting and Auditing

- M40 General
- M41 Accounting
- M42 Auditing
- M48 Government Policy and Regulation
- M49 Other

#### M5 - Personnel Economics

- M50 General
- M51 Firm Employment Decisions; Promotions
- M52 Compensation and Compensation Methods and Their Effects
- M53 Training
- M54 Labor Management
- M55 Labor Contracting Devices
- M59 Other

## N - Economic History

#### N0 - General

- N00 General
- N01 Development of the Discipline: Historiographical; Sources and Methods

#### N1 - Macroeconomics and Monetary Economics; Growth and Fluctuations

- N10 General, International, or Comparative
- N11 U.S.; Canada: Pre-1913
- N12 U.S.; Canada: 1913-
- N13 Europe: Pre-1913
- N14 Europe: 1913-
- N15 Asia including Middle East
- N16 Latin America; Caribbean
- N17 Africa; Oceania

#### N2 - Financial Markets and Institutions

- N20 General, International, or Comparative
- N21 U.S.; Canada: Pre-1913
- N22 U.S.; Canada: 1913-
- N23 Europe: Pre-1913
- N24 Europe: 1913-
- N25 Asia including Middle East
- N26 Latin America; Caribbean
- N27 Africa; Oceania

# N3 - Labor and Consumers, Demography, Education, Health, Welfare, Income, Wealth, Religion, and Philanthropy

- N30 General, International, or Comparative
- N31 U.S.; Canada: Pre-1913
- N32 U.S.: Canada: 1913-
- N33 Europe: Pre-1913
- N34 Europe: 1913-
- N35 Asia including Middle East
- N36 Latin America; Caribbean
- N37 Africa; Oceania

## N4 - Government, War, Law, International Relations, and Regulation

- N40 General, International, or Comparative
- N41 U.S.; Canada: Pre-1913
- N42 U.S.; Canada: 1913-
- N43 Europe: Pre-1913
- N44 Europe: 1913-
- N45 Asia including Middle East
- N46 Latin America; Caribbean
- N47 Africa; Oceania

## N5 - Agriculture, Natural Resources, Environment, and Extractive Industries

- N50 General, International, or Comparative
- N51 U.S.; Canada: Pre-1913
- N52 U.S.; Canada: 1913-
- N53 Europe: Pre-1913
- N54 Europe: 1913-
- N55 Asia including Middle East
- N56 Latin America; Caribbean
- N57 Africa; Oceania

#### N6 - Manufacturing and Construction

N60 - General, International, or Comparative

N61 - U.S.; Canada: Pre-1913

N62 - U.S.; Canada: 1913-

N63 - Europe: Pre-1913

N64 - Europe: 1913-

N65 - Asia including Middle East

N66 - Latin America; Caribbean

N67 - Africa; Oceania

## N7 - Transport, Trade, Energy, Technology, and Other Services

N70 - General, International, or Comparative

N71 - U.S.; Canada: Pre-1913

N72 - U.S.; Canada: 1913-

N73 - Europe: Pre-1913

N74 - Europe: 1913-

N75 - Asia including Middle East

N76 - Latin America; Caribbean

N77 - Africa; Oceania

## N8 - Micro-Business History

N80 - General, International, or Comparative

N81 - U.S.; Canada: Pre-1913

N82 - U.S.; Canada: 1913-

N83 - Europe: Pre-1913

N84 - Europe: 1913-

N85 - Asia including Middle East

N86 - Latin America; Caribbean

N87 - Africa: Oceania

## N9 - Regional and Urban History

N90 - General, International, or Comparative

N91 - U.S.; Canada: Pre-1913

N92 - U.S.; Canada: 1913-

N93 - Europe: Pre-1913

N94 - Europe: 1913-

N95 - Asia including Middle East

N96 - Latin America; Caribbean

N97 - Africa: Oceania

#### O - Economic Development, Technological Change, and Growth

## 01 - Economic Development

010 - General

011 - Macroeconomic Analyses of Economic Development

012 - Microeconomic Analyses of Economic Development

013 - Agriculture; Natural Resources; Energy; Environment; Other Primary Products

014 - Industrialization; Manufacturing and Service Industries; Choice of Technology

015 - Human Resources; Human Development; Income Distribution; Migration

 ${\tt O16-Economic\ Development:\ Financial\ Markets;\ Saving\ and\ Capital\ Investment;}$ 

Corporate Finance and Governance

017 - Formal and Informal Sectors; Shadow Economy; Institutional Arrangements

018 - Urban, Rural, Regional, and Transportation Analysis; housing; Infrastructure (Updated!)

 $\rm O19$  - International Linkages to Development; Role of International Organizations

# 02 - Development Planning and Policy

- 020 General
- 021 Planning Models; Planning Policy
- 022 Project Analysis
- 023 Fiscal and Monetary Policy in Development
- 024 Trade Policy; Factor Movement Policy; Foreign Exchange Policy
- 025 Industrial Policy
- 029 Other

## 03 - Technological Change; Research and Development; Intellectual Property Rights

- 030 General (Updated!)
- 031 Innovation and Invention: Processes and Incentives
- 032 Management of Technological Innovation and R&D
- 033 Technological Change: Choices and Consequences; Diffusion Processes
- 034 Intellectual Property Rights
- 038 Government Policy
- 039 Other

## 04 - Economic Growth and Aggregate Productivity

- 040 General
- 041 One, Two, and Multisector Growth Models
- 042 Monetary Growth Models
- 043 Institutions and Growth
- 044 Environment and Growth
- $047 \hbox{ -} Measurement of Economic Growth; Aggregate Productivity; Cross-Country} \\$

**Output Convergence** 

049 - Other

## 05 - Economywide Country Studies

- 050 General
- 051 U.S.: Canada
- O52 Europe
- 053 Asia including Middle East
- 054 Latin America; Caribbean
- 055 Africa
- 056 Oceania
- 057 Comparative Studies of Countries

## P - Economic Systems

P0 - General

P00 - General

## P1 - Capitalist Systems

- P10 General
- P11 Planning, Coordination, and Reform
- P12 Capitalist Enterprises
- P13 Cooperative Enterprises
- P14 Property Rights
- P16 Political Economy

- P17 Performance and Prospects
- P19 Other

#### P2 - Socialist Systems and Transitional Economies

- P20 General
- P21 Planning, Coordination, and Reform
- P22 Prices
- P23 Factor and Product Markets; Industry Studies; Population
- P24 National Income, Product, and Expenditure; Money; Inflation
- P25 Urban, Rural, and Regional Economics
- P26 Political Economy; Property Rights
- P27 Performance and Prospects
- P28 Natural Resources; Energy; Environment
- P29 Other

#### P3 - Socialist Institutions and Their Transitions

- P30 General
- P31 Socialist Enterprises and Their Transitions
- P32 Collectives; Communes; Agriculture
- P33 International Trade, Finance, Investment, and Aid
- P34 Financial Economics
- P35 Public Economics
- P36 Socialist Institutions and Their Transitions: Consumer Economics; Health;
- Education and Training; Welfare, Income, Wealth, and Poverty
- P37 Legal Institutions; Illegal Behavior
- P39 Other

#### P4 - Other Economic Systems

- P40 General
- P41 Planning, Coordination, and Reform
- P42 Productive Enterprises; Factor and Product Markets; Prices; Population
- P43 Public Economics; Financial Economics
- P44 National Income, Product, and Expenditure; Money; Inflation
- P45 International Trade, Finance, Investment, and Aid
- P46 Consumer Economics; Health; Education and Training; Welfare, Income,

Wealth, and Poverty

- P47 Performance and Prospects
- P48 Political Economy; Legal Institutions; Property Rights; Natural Resources;

Energy; Environment; Regional Studies

P49 - Other

## P5 - Comparative Economic Systems

- P50 General
- P51 Comparative Analysis of Economic Systems
- P52 Comparative Studies of Particular Economies
- P59 Other

# Q - Agricultural and Natural Resource Economics; Environmental and Ecological Economics

- 00 General
  - 000 General
  - Q01 Sustainable Development
  - Q02 Global Commodity Crises

# Q1 - Agriculture

- 010 General
- Q11 Aggregate Supply and Demand Analysis; Prices
- Q12 Micro Analysis of Farm Firms, Farm Households, and Farm Input Markets
- Q13 Agricultural Markets and Marketing; Cooperatives; Agribusiness
- Q14 Agricultural Finance
- Q15 Land Ownership and Tenure; Land Reform; Land Use; Irrigation;
- Agriculture and Environment
- Q16 R&D; Agricultural Technology; Biofuels; Agricultural Extension Services
- Q17 Agriculture in International Trade
- Q18 Agricultural Policy; Food Policy
- Q19 Other

## Q2 - Renewable Resources and Conservation

- 020 General
- Q21 Demand and Supply
- Q22 Fishery; Aquaculture
- Q23 Forestry
- Q24 Land
- Q25 Water
- Q26 Recreational Aspects of Natural Resources
- Q27 Renewable Resources and Conservation: Issues in International Trade
- Q28 Government Policy
- Q29 Other

## Q3 - Nonrenewable Resources and Conservation

- Q30 General
- Q31 Demand and Supply
- Q32 Exhaustible Resources and Economic Development
- Q34 Natural Resources and Domestic and International Conflicts
- Q33 Resource Booms
- Q37 Issues in International Trade (Updated!)
- Q38 Government Policy
- Q39 Other

#### Q4 - Energy

- Q40 General
- Q41 Demand and Supply
- Q42 Alternative Energy Sources
- Q43 Energy and the Macroeconomy
- Q47 Energy Forecasting
- Q48 Government Policy
- Q49 Other

#### Q5 - Environmental Economics

- Q50 General
- Q51 Valuation of Environmental Effects
- $\ensuremath{\mathsf{Q52}}$  Pollution Control Adoption Costs; Distributional Effects; Employment Effects
- Q53 Air Pollution; Water Pollution; Noise; Hazardous Waste; Solid Waste; Recycling
- Q54 Climate; Natural Disasters; Global Warming
- Q55 Technological Innovation
- Q56 Environment and Development; Environment and Trade; Sustainability; Environmental Accounts and Accounting; Environmental Equity; Population

#### Growth

Q57 - Ecological Economics: Ecosystem Services; Biodiversity Conservation;

Bioeconomics; Industrial Ecology

Q58 - Government Policy

Q59 - Other

## R - Urban, Rural, Regional, and Transportation Economics

#### R0 - General

R00 - General (Updated!)

#### R1 - General Regional Economics

R10 - General

R11 - Regional Economic Activity: Growth, Development, Environmental Issues,

and Changes (Updated!)

R12 - Size and Spatial Distributions of Regional Economic Activity

R13 - General Equilibrium and Welfare Economic Analysis of Regional Economies

R14 - Land Use Patterns

R15 - Econometric and Input-Output Models; Other Models

R19 - Other

## R2 - Household Analysis

R20 - General (Updated!)

R21 - Housing Demand (Updated!)

R22 - Other Demand (Updated!)

R23 - Regional Migration; Regional Labor Markets; Population; Neighborhood

Characteristics (Updated!)

R28 - Government Policy (Updated!)

R29 - Other (Updated!)

#### R3 - Housing Markets, Production Analysis, and Firm Location

R30 - General

R31 - Housing Supply and Markets

R32 - Other Production and Pricing Analysis

R33 - Nonagricultural and Nonresidential Real Estate Markets

R34 - Input Demand Analysis

R38 - Government Policy (Updated!)

R39 - Other

#### **R4** - Transportation Systems

R40 - General

R41 - Transportation: Demand, Supply, and Congestion; Safety and Accidents;

**Transportation Noise** 

R42 - Government and Private Investment Analysis; Road Maintenance;

**Transportation Planning** 

R48 - Government Pricing and Policy (Updated!)

R49 - Other

## R5 - Regional Government Analysis

R50 - General

R51 - Finance in Urban and Rural Economies

R52 - Land Use and Other Regulations

R53 - Public Facility Location Analysis; Public Investment and Capital Stock

R58 - Regional Development Planning and Policy

R59 - Other

# Y - Miscellaneous Categories

Y1 - Data: Tables and Charts

Y10 - Data: Tables and Charts

## Y2 - Introductory Material

Y20 - Introductory Material

## Y3 - Book Reviews (unclassified)

Y30 - Book Reviews (unclassified)

## Y4 - Dissertations (unclassified)

Y40 - Dissertations (unclassified)

# Y5 - Further Reading (unclassified)

Y50 - Further Reading (unclassified)

## Y6 - Excerpts

Y60 - Excerpts

## Y7 - No Author General Discussions

Y70 - No Author General Discussions

# Y8 - Related Disciplines

Y80 - Related Disciplines

## Y9 - Other

Y90 - Other

Y91 - Pictures and Maps

# Z - Other Special Topics

Z0 - General

Z00 - General

## Z1 - Cultural Economics; Economic Sociology; Economic Anthropology

Z10 - General

Z11 - Economics of the Arts and Literature

Z12 - Religion

Z13 - Economic Sociology; Economic Anthropology; Social and Economic

Stratification

Z18 - Public Policy (Updated!)

Z19 - Other