

DEPARTMENT OF ECONOMICS

SCHOOL OF BUSINESS & ECONOMICS

Curriculum of BS in Economics Effective From Summer 2015 to Fall 2018

BS in Economics program emphasizes all round competence in economics. Students in this program will have all the necessary skills for jobs in the related fields and ability to successfully complete higher studies in Economics both at home and abroad.

BS in Economics is a 120 credit hour program spread over a period 4 years. These credits are divided into General Education, School & Discipline requirements and Free Electives. General education program augments and rounds out the specialized training students receive in economics and aims to cultivate a knowledgeable, informed, literate human being. A free elective broadens a student's horizon and provides him with a chance to pursue higher studies in other areas.

The following is the curriculum for the BS in Economics degree.

BS in Economics Curriculum		(120 Credits)	
GENERAL EDUCATION COURSES (*=Counted in school core)		(36 Cr)	
Languages		(09 Cr)	
Course Code	Title	Credits	Pre-requisite
ENG 103	Intermediate Composition	03	ENG 102 if not waived
ENG 105	Advanced Composition	03	ENG 103
*BUS 251	Business Communication	-	ENG 105
ENG 115	Introduction to Literature [For students from 163 onwards ENG 115 is replaced to BAN 205 - Bangla Language and Literature)	03	-
Humanities		(09 Cr)	
Course Code	Title	Credits	Pre-requisite
PHI 101	Introduction to Philosophy	03	-
Two courses from History		06	
HIS 101 HIS 102 HIS 103 HIS 202 HIS 203 HIS 205	Bangladesh History, Culture/ World Civilization/ Emergence of Bangladesh [mandatory for students from 163 onwards] Indo-Bangla History/ Islamic History/ World History		-
Social Sciences		(6 Cr)	
Course Code	Title	Credits	Pre-requisite
*ECO 101	Introduction to Microeconomics	-	-
One course in Political Science/Governance		03	
POL 101 POL 104	Introduction to Political Science/ Introduction to Governance	-	-
One course in Sociology/Environment/Geography/Anthropology		03	
SOC 101 ENV 203/GEO205 ANT101	Introduction to Sociology/ Introduction to Bangladesh Geography/ Introduction to Anthropology	-	-
Computer and Math Skills		(n/a)	
Course Code	Title	Credits	Pre-requisite
*MIS 105	Introduction to Computers	-	-
*ECO 172	Introduction to Statistics	-	-
*MAT 120	Calculus & Analytical Geometry I	-	-
Sciences (with lab)		(12 Cr)	
Three courses from: Biology/Chemistry/Environmental Science/Public Health/Physics/Psychology with one credit lab			
Course Code	Title	Credits	Pre-requisite
BIO 103 CHE 101 ENV 107 PBH 101 PHY 107 PSY 101	Biology I/ Chemistry I/ Introduction to Environmental Science/ Introduction to Public Health/ Physics I/ Introduction to Psychology	12	Check relevant department

BS in Economics Curriculum

SCHOOL CORE <small>[*=counted in school core]</small>		(21 Cr)	
Course Code	Title	Credits	Pre-requisite
ECO 101	Principles of Microeconomics	3	-
ECO 104	Principles of Macroeconomics	3	-
BUS 251	Business Communication	3	ENG 105
MIS 105	Computer Information Systems	3	-
ECO 172	Introduction to Statistics	3	-
ECO 173	Applied Statistics	3	-
MAT 120	Calculus & Analytical Geometry I	3	MAT 116
MATH REQUIREMENTS		(12 Cr)	
Course Code	Title	Credits	Pre-requisite
MAT 125	Introduction to Linear Algebra	03	MAT 116
MAT 130	Calculus & Analytical Geometry II	03	MAT 120
MAT 250	Calculus & Analytical Geometry III	03	MAT 130
MAT 480	Differential Equations	03	MAT 250
ECO MAJOR REQUIREMENTS		(24 Cr)	
Required Economics Major Courses		(12 Cr)	
Course Code	Title	Credits	Pre-requisite
MAT 120	Calculus & Analytical Geometry I	-	MAT 116
ECO 172	Introduction to Statistics	-	-
ECO 201	Intermediate Microeconomic Theory	03	ECO 101, ECO 134/BUS 135/MAT 120
ECO 204	Intermediate Macroeconomic Theory	03	ECO 104, ECO 134/BUS 135/MAT 120
ECO 372	Introduction to Econometrics	03	ECO 173/BUS 173, ECO 134/BUS 135/MAT 120
ECO 490	Senior Seminar (Capstone)	03	12 credits ECO courses & ECO 372
Economics Elective Courses		(12 Cr)	
Course Code	Title	Credits	Pre-requisite
ECO 317	Money and Banking	03	ECO 101 & ECO 104
ECO 328	International Economics	03	ECO 101 & ECO 104
ECO 349	Economy of Bangladesh	03	ECO 328
ECO 354	Environmental and Natural Resources Economics	03	ECO 201
ECO 406	History of Economic Thought	03	ECO 101 & ECO 104
ECO 414	Public Finance	03	ECO 201
ECO 441	Labor Economics	03	ECO 201
ECO 443	Health Economics	03	ECO 201
ECO 415	Economic Development	03	ECO 201, ECO 204
ECO 492	Special Topics in Economics	03	-
FREE ELECTIVES		(27 Cr)	
Optional minor		12	
Courses from any area, university-wide		15	

Course Descriptions:

ECO101 **Introduction to Microeconomics:** An introduction to the methods and principles of microeconomics. Topics include: markets; theory of consumer behaviour; production theory; costs of production, and market structure; efficiency in allocation and production. 3 credits.

Books:

- 1) Arnold, Roger A. Economics. 9th edition. Thompson. South-Western Cengage Learning.
- 2) Mankiw, N. Gregory, Principles of microeconomics, 6th edition. South-Western Cengage Learning.

ECO104 **Introduction to Macroeconomics:** Introduces the principles of macroeconomic analysis, its analytical methods with current institutional and empirical issues. Topics include national income accounting; issues relating to unemployment, inflation; determination of output, price level, money and banking, monetary and fiscal policies; budget and trade deficits; and exchange rate. **3 credits**

Books:

1. Arnold, Roger A. 2014, Macroeconomics. 11th edition. South-Western Cengage Learning, International Edition.
2. Parkin, Michael 2014, Economics, 11th edition. Pennon- Global Edition

ECO172 **Introduction to Statistics:** This is the first introductory course on Statistics. Topics covered: Data collection and presentation, descriptive statistics, probability distributions, sampling distributions and the central limit theorem, point estimation and hypothesis testing, introduction to simple correlation and regression. Pre-requisite: None. 3 credits.

Books:

1. Gerald Keller, Statistics for Management and Economics, 10th edition
2. Lind Marshal Wathen, Statistical Techniques for Business and Economics, 15th edition, McGraw-Hill/Irwin Series
3. Prem Mann, Introductory Statistics, 7th edition

ECO173 **Applied Statistics I:** This course is an introduction to modern theory and methodology of statistics in the areas of economics and business. Topics include descriptive statistics, probability theory, Sampling theory and methodology, sampling distributions, estimation and hypothesis testing, simple and multiple regression. Software requirement: MITAB or SPSS. 3 credits.

Books:

1. Gerald Keller, Statistics for Management and Economics, South-Western Cengage Learning, 9th edition, 2012.
2. Newbold Paul, William L. Carlson, and Betty M. Thorne, Statistics for Business and Economics, Pearson, 8th edition, 2012.
3. Jaggia Sanjiv, and Alison Kelly, Business Statistics: Communicating with Numbers, McGraw-Hill Irwin, 1st edition, 2013.

ECO201 **Intermediate Microeconomic Theory:** Theory of choice and its application to consumer and producer modelling; theory of production and cost; output and input markets; their structure, equilibrium and efficiency; introduction to general equilibrium analysis. Prerequisite: ECO101, MAT120. **3 credits.**

Books:

- 1) Pindyck Robert, and Daniel Rubinfeld, Microeconomics, Pearson Prentice Hall, 8th edition, 2013.
- 2) Nicholson Walter, and Christopher Snyder, Intermediate Microeconomics and Its Applications, South-Western Cengage Learning, 11th edition, 2010.
- 3) Hal Varian, Intermediate Microeconomics: A Modern Approach, W. W. Norton & Company, 8th edition, 2010.

ECO204 **Intermediate Macroeconomic Theory:** This course introduces mainstream macroeconomic theories and modern issues in macroeconomics. Topics include Classical, Keynesian and modern macroeconomics, modern business cycle theory, theories of unemployment and trade-off between inflation and unemployment, money supply and monetary policy, fiscal policy and budget deficit, introduction to growth theory etc. Prerequisite: ECO 101, ECO 104. 3 credits

Book:

- 1) N. Gregory Mankiw, Macroeconomics, 8th edition, 2013 International version, Macmillan Publisher.
- 2) Olivier Blanchard and David R. Johnson, Macroeconomics, 6th edition, 2013, Pearson.

ECO317 **Money and Banking:** The structure and activity of the financial sector of the economy; role of money in the economy especially its impact on output, employment, and prices; types of financial assets and their uses; interest rates; role played by financial intermediaries; interest-free and new concepts in banking; review of the financial sector of Bangladesh. Pre requisite: ECO101 and ECO104. Equivalent to FIN258. 3 credits.

Book:

- 1) Frederic S. Mishkin, Economics of Money, Banking and Financial Markets, Prentice Hall, 10th ed., 2013

ECO328 **International Economics:** This course provides standard exposition to international trade and payments. Topics include Law of Comparative Advantage, Factor endowment theory of trade, Alternative trade theories and empirical testing, Theory of tariff, Other instruments of commercial policy, Economics of free trade versus protection, Customs union, Balance of payments, Foreign exchange market etc. Prerequisite: ECO 101, ECO 104, ECO201. 3 credits

Books:

- 1) Paul R. Krugman, Maurice Obstfeld, and Marc J. Melitz, International Economics: Theory & Policy, ninth edition, Pearson Education Limited, 2012.
- 2) Giancarlo Gandolfo, International Trade Theory and Policy, 2nd edition, Springer, 2014

ECO349 **Economy of Bangladesh:** It surveys the socio-economic features and studies of the macro-economic performance of the economy of Bangladesh within the context of socio-political reality; sectoral development and analysis of the sectors in a general equilibrium framework; agriculture, industry, foreign trade and foreign aid in Bangladesh; financial institutions and monetary management as well as fiscal policy in Bangladesh; technology, human resource development and the long term performance of Bangladesh. Prerequisite: ECO101 and ECO104. 3 credits.

Book:

1) Abdul Bayes (ed), Bangladesh at 40: Changes and Challenges, 1st edition, A.H. Development Publishing House, 2012.

ECO354 **Environmental and Natural Resources Economics:** Resource availability, environmental pollution and limits to growth. Theory of optimal use and depletion of renewable, non-renewable and recyclable resources in the context of water, forest, fisheries, and mineral resources. Theory of property rights regimes such as public, private and common property ownership into resource management. Market failure, externality and economics of pollution control. Economics of regional and global pollution. Pollution control policies and their implications for efficiency, equity and growth. Prerequisite: ECO201, ECO204. 3 credits.

Books:

1) B.C. Field and M.K. Field: Environmental Economics: An Introduction, 4th edition, Irwin -McGraw-Hill Inc. Boston, 2006
 2) T. Tietenberg, Environmental and Natural Resource Economics, 5th edition, Addison-Wesley Longman, 2000. UNEP (2009). The use of Economic Instruments for Environmental and Natural Resource Management: Training Resource Manual (Geneva: Economics & Trade Branch, UNEP).

ECO372 **Introduction to Econometrics:** It deals with econometric models for estimation of single equation, models; assumptions of the OLS estimation technique and the failures; econometric models with heteroskedasticity, autocorrelations, multicollinearity; dummy variables; specification errors; lagged variables; sufficient statistical and computers skills is useful for conducting econometric analysis of business and economic problems. Prerequisite: ECO173, MAT250. Software Requirement: Eviews. 3 credits.

Books:

1) Stock James, and Mark Watson, Introduction to Econometrics, Pearson, 2nd or 3rd edition, 2012.
 2) Wooldridge, Jeffrey M., Introductory Econometrics: A Modern Approach, Cengage Learning, 5th edition, 2008.
 3) Gujarati, Damodar N., Basic Econometrics, McGraw Hill Companies, 4th edition, 2004.

ECO406 **History of Economic Thought:** The aim of this course is to study how economic analysis has reached its present state. This course presents the major theoretical and methodological ideas that have shaped and continue to shape contemporary economics keeping a balance between coverage of ideas, individual contributors, different schools, institutions and methods. It covers contributions from pre-classical including ancient and medieval, classical, neoclassical, Marxians, Austrians, Keynesians, post-Keynesians, and Chicago school. In discussing the contributions of different schools, institutions and individuals, the course makes a special treatment of value and distribution. Prerequisite: ECO201 and ECO204. 3 credits.

Books:

1) Absansandro Roncaglia, the Wealth of Ideas: A History of Economic Thought. Cambridge University Press, 2005
 2) Robert B. Ekelund and Robert F. Hebert, A History of Economic Theory and Method. 3rd edition. McGraw-Hill Publishing Company, 1990.
 3) Harry Landreth, History of Economic Theory: Scope, Method and Content. Houghton Mifflin Company, Boston, 1976

ECO414 **Public Finance:** This course is designed to study the economics of government- how public choices are made, basics of taxation and spending of government. In the initial stage, this course investigates the market failure, necessity of government, government failure and how government choices are made, theoretical aspects of expenditure, and economics of budget. It further looks into the tools of tax analysis including tax equity, tax incidence, different taxes, economic effects of taxes, and tax-structure and its reforms. The course also studies the techniques of fiscal policy and fiscal policy in relation to inflation, employment and poverty. Prerequisite: ECO101, ECO201. 3 credits.

Books:

1) Gruber, Jonathan, *Public Finance and Public Policy*, Worth Publishers, 3rd edition, 2011.
 2) Ulbrich, Holley H., *Public Finance in Theory and Practice*, Routledge, 2nd edition, 2011.

ECO441 **Labour Economics:** Economics of manpower (human resource) development, economics of labor management, labor organization and regulations. Contents include composition and structure of labor force, determinants of labor market – demand, supply and development, wage determination-application of macroeconomic theory; unionism: collective choice, types of trade unions, growth of unions, structure of collective bargaining, strikes, effects on relative wages, unions and inflation, unions and politics. Prerequisite: ECO201. 3 credits.

Books:

1) Ehrenberg, Ronald, and Robert Smith, Modern Labor Economics: Theory and Public Policy, Addison-Wesley, 11th edition, 2012.
 2) Kaufman, Bruce, and Julie Hotchkiss, The Economics of Labor Markets, Thomson, 7th edition, 2006.
 3) Jacobsen, Joyce, and Gilbert Skillman, Labor Markets and Employment Relationships: A Comprehensive Approach, Wiley-Blackwell, 1st edition, 2004.

ECO443 **Health Economics:** The purpose of this course is to provide an introduction to the principal questions addressed in the context of health economics literature, and to equip students with the basic tools to undertake health policy analysis and research. Major topics include the demand and supply of health and health care services; information asymmetry as it impinges on the contractual arrangements among consumers, insurers and providers; efficient use of health care resources; measurement of health and economic evaluation using cost-effectiveness and cost-utility analysis. Other topics may include assessment of medical technology and policy issues and analyses in some developed as well as developing countries. Prerequisite: ECO201. **3 credits.**

Books:

- 1) J. E. Hurley, Health Economics, 1st edition, McGraw-Hill, 2010
- 2) Charles Phelps, Health Economics, 4th edition, Addison Wesley, 2009
- 3) TS. Folland, A.C. Goodman & M. Stano, The Economics of Health and Health Care, Prentice Hall.

ECO415 **Economic Development:** This course is based on the role of public policy in economic development and the political context in which policy decisions are taken. Topics covered include: a historical perspective on the evolution of development economics as an academic discipline; the international dimensions of development; macroeconomic stabilization; financial systems; agriculture and the microeconomics of rural organizations; labour markets and human resource development; environmental degradation; the notion of 'shared growth' and the nexus between democratic governance and development. This course emphasizes a blend of theory and evidence-with the latter drawn primarily from the experience of Asian economies. Prerequisite: ECO201 and ECO204. **3 credits.**

Books :

- 1) Michael P. Todaro & Stephen C. Smith, Economic Development, 10th edition
- 2) Kaushik Basu (1998), Analytical Development Economics, The MIT Press

ECO492 **Special Topics in Economics:** This is a general topic course to meet the special demand for students which may change from semester to semester depending on the need of students and the availability of expert. **3 credits.**

ECO 490 **Senior Seminar (Capstone):** A range of seminars will be offered representing the variety of economics topics and methodologies. Seminars will typically meet once a week, and the emphasis will be on student presentation and discussion of classic and current articles. Each student will be required to author a research paper, and a grade will be assigned based on the quality of the paper and on participation in seminar discussions. **3 credits.**