

## Bachelor of Science (B.S.) Economics program

Bachelor of Science (BS) Economics program is a 4-year degree program designed to give students a solid foundation in Economics. The program provides a well-coordinated curriculum and prepares the students for entry level positions in private and public sector corporations, development organizations, banks, education and research organizations. A wide range of courses offered in this program give students ample opportunities to broaden their knowledge base. The Economics research project in the 4th year enables students to apply the quantitative tools learned in the program to the economic and financial problems in the public and private sectors.

<b>Curriculum structure</b>	
Duration	4 years
Semesters	8
Courses	40
Research project	1
<b>Total credit hours</b>	<b>126</b>

## Required courses

<b>Section</b>	<b>Course category</b>	<b>Courses</b>	<b>Credit hours</b>
A	University core courses	4	12
B	Economics core courses	16	50
C	Economics elective courses	4	12
D	Supporting courses (Mathematics 3 and Statistics 2) (core)	5	15
E	Non-specialization courses (3 core + 8 electives)	11	33
F	Economics research project (core)	1	4
	<b>Total</b>	<b>41</b>	<b>126</b>

## A. University core courses

Course title	Course code	Credit hours
English Grammar & Composition	SSC101	3
Pakistan History	SSC151	3
Speech Communication	HUM201	3
Socioeconomic Philosophy of Islam or Philosophy, Logic and Ethics*	SSC301/HUM357	3

\*All Muslim students are required to register for SEPI. Non-Muslim students may take either SEPI or PLE

## B. Economics core courses

Course title	Course code	Credit hours	Pre-requisite
Principles of Microeconomics	ECO103	3	-
Principles of Macroeconomics	ECO104	3	-
Intermediate Microeconomics	ECO201	3	ECO103,
Intermediate Macroeconomics	ECO202	3	ECO104
Microeconomic Theory	ECO312	3	ECO201
Macroeconomic Theory	ECO313	3	ECO202
Mathematical Economics	ECO303	3	-
Major Issues in Pakistan Economy	ECO403	3	-
Contemporary Issues in Global Economics	ECO404	3	ECO201, ECO202
Development Economics I	ECO203	3	ECO103, ECO104
Development Economics II	ECO302	3	-
Applied Econometrics I	ECO343	4	MTS202
Applied Econometrics II	ECO344	4	ECO303
Research Methods in Economics	ECO411	3	ECO303
International Trade or International Economics	ECO466/ECO305	3	ECO103, ECO104
History of Economic Thought	ECO467	3	ECO103, ECO104

### C. Economics elective courses

Students can select any four economics elective courses. Currently, following elective courses are being offered:

Course title	Course code	Credit hours	Pre-requisite
Public Economics	ECO401/ECO567	3	ECO103, ECO104/ECO531, ECO532 , ECO533
Public Finance	ECO451	3	ECO103, ECO104
Monetary Economics	ECO452/ECO566	3	ECO103, ECO104
Time Series Econometrics	ECO457	3	MTS202
Climate Change Economics	ECO458/ECO551	3	ECO103, ECO104
Natural Resource and Environmental Economics	ECO461	3	ECO103, ECO104
Game Theory/Game Theory & Competitive Strategy	ECO464/ECO573	3	ECO103, ECO104
Health Economics	ECO471/ECO563	3	ECO103, ECO104
Labour Economics	ECO472	3	ECO103, ECO104
Economic Forecasting	ECO555	3	ECO537
Public Policy Analysis: Theory and Practice	ECO560	3	ECO531/501/102 /104 /103/113
Environmental and Resource Economics	ECO561	3	ECO531, ECO533
Financial Economics	ECO562	3	ECO531, ECO533
Time Series Modelling	ECO570	3	ECO537
Industrial Economics	ECO571	3	ECO631
Water Economics and Policy	ECO574	3	-
Microeconomics of Public Policy Analysis	ECO575	3	ECO531/301/312/501
Social Impact Evaluation	ECO577	3	-

### D. Supporting courses (Mathematics & Statistics)

Course title	Course code	Credit hours	Pre-requisite
Calculus with Applications I or Calculus I with Plain Geometry	MTS101/MTS104	3	-
Calculus with Applications II or Calculus II with Solid Geometry	MTS232/MTS106	3	-
Linear Algebra	MTS203	3	-

Introduction to Statistics	MTS102	3	-
Statistical Inferences	MTS202	3	-
College Algebra**	MTS105	3	-

**\*\* College algebra is a non-credit course and is offered only for those students who do not have a mathematics background. Students will not be required to pay fees for College Algebra.**

### **E. Non-specialization elective courses**

<b>Course title</b>	<b>Course code</b>	<b>Credit hours</b>	<b>Pre-requisite</b>
Introduction to Computer Applications	MIS103	3	-
Essential Software	MIS150	3	-
Introduction to Academic Writing	SSC-236	3	-
Non-specialization elective I	-	3	-
Non-specialization elective II	-	3	-
Non-specialization elective III	-	3	-
Non-specialization elective IV	-	3	-
Non-specialization elective V	-	3	-
Non-specialization elective VI	-	3	-
Non-specialization elective VII	-	3	-
Non-specialization elective VIII	-	3	-

### **Non-specialization elective courses**

*Students can select 8 courses from any discipline other than Economics, including: Accounting, Finance, Marketing, Management, Social Sciences and Liberal Arts, Mathematics, Statistics, and Computer Science.*

### Semester-wise sequence of courses

Freshman	Semester - 1	Course code	Credit hours	Pre-requisite
1	English Grammar & Composition	SSC101	3	
2	Pakistan History	SSC151	3	
3	Principles of Microeconomics	ECO103	3	
4	Introduction to Computer Applications	MIS103	3	
5	Introduction to Statistics	MTS102	3	
6	College Algebra**	MTS105	3	
	Semester - 2	Course code	Credit hours	Pre-requisite
1	Speech Communication	HUM201	3	
2	Socioeconomic Philosophy of Islam or Philosophy, Logic and Ethics*	SSC301/HUM357	3	
3	Principles of Macroeconomics	ECO104	3	
4	Calculus with Applications I or Calculus I with Plain Geometry	MTS101/MTS104	3	
5	Non-specialization elective I	-	3	
Sophomore	Semester - 3	Course code	Credit hours	Pre-requisite
1	Introduction to Academic Writing	SSC236	3	
2	Linear Algebra	MTS203	3	
3	Intermediate Microeconomics	ECO201	3	
4	Calculus with Applications II or Calculus II with Solid Geometry	MTS232/MTS106	3	
5	Non-specialization elective II	-	3	
	Semester - 4	Course code	Credit hours	Pre-requisite
1	Essential Software	MTS111	3	
2	Intermediate Macroeconomics	ECO202	3	
3	Development Economics I	ECO203	3	
4	Statistical Inferences	MTS202	3	
5	Non-specialization elective III	-	3	

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Junior	Semester - 5	Course code	Credit hours	Pre-requisite
1	Microeconomic Theory	ECO312	3	
2	Applied Econometrics I	ECO343	4	
3	Development Economics II	ECO302	3	
4	Mathematical Economics	ECO303	3	
5	Non-specialization elective IV	-	3	
Semester - 6				
	Semester - 6	Course code	Credit hours	Pre-requisite
1	Macroeconomic Theory	ECO313	3	
2	Applied Econometrics II	ECO344	4	
3	Major Issues in Pakistan Economy	ECO403	3	
4	International Trade or International Economics	ECO466/ECO305	3	
5	Non-specialization elective V	-	3	
Senior	Semester - 7	Course code	Credit hours	Pre-requisite
1	Research Methods for Economics	ECO411	3	-
2	History of Economic Thought	ECO467	3	
3	Economics elective I	ECO-	3	
4	Economics elective II	ECO-	3	
5	Non-specialization elective VI	-	3	
6	Economics research project	ECO441	4	
Semester - 8				
	Semester - 8	Course code	Credit hours	Pre-requisite
1	Contemporary Issues in Global Economics	ECO404	3	-
2	Economics elective III	ECO-	3	
3	Economics elective IV	ECO-	3	
4	Non-specialization elective VII	-	3	
5	Non-specialization elective VIII	-	3	

*Note: Students are eligible to carry out their responsible citizen initiative (RCI)/social internships right after their 1st year of studies/2nd semester and should complete this mandatory graduation requirement by the end of their 3rd year of studies/6th semester.*