

List of Courses B.Sc. (Hons.) Agri. & Resource Economics

2022 & 23

2024

Course Code	Title of the Course	Credit Hours	Course Code	Title of the Course	Credit Hours	Course Type
SEMESTER I			Semester I			
ARE-301	PRINCIPLES OF AGRICULTURAL AND RESOURCE ECONOMICS	3(2-1)	ARE-301	PRINCIPLES OF AGRICULTURAL AND RESOURCE ECONOMICS	3(3-0)	Major
AGR-301	BASIC AGRICULTURE	2(1-1)	ARE-303	INTRODUCTION TO PAKISTAN'S ECONOMY	3(3-0)	Major
CS-305	INTRODUCTION TO INFORMATION AND COMMUNICATION TECHNOLOGIES	3(2-1)	AGR-301 /AGR304	BASIC AGRICULTURE/WEED CONTROL METHODS (FOR F.SC. PRE-AGRI.)	3(1-2)	Allied
AEE-301	INTRODUCTION TO AGRI. EXTENSION	2(2-0)	CS-305	APPLICATION OF INFORMATION TECHNOLOGY AND COMMUNICATION TECHNOLOGIES (ICT)	3(2-1)	GE
ENG-301	COMPOSITION AND COMMUNICATION SKILLS	3(3-0)	ENG-313	FUNCTIONAL ENGLISH	3(3-0)	GE
MATH-301/ BIO-301	ELEMENTARY MATHEMATICS /	3(3-0)/	MATH-301/ BIO-301	ELEMENTARY MATHEMATICS /ESSENTIALS OF BIOLOGY	3(3-0)/ 3(2-1)	Allied
	ESSENTIALS OF BIOLOGY	3(2-1)	TGM-301	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	
SSH-302	PAKISTAN STUDIES	2(2-0)		Total Credit Hours	18(15-3) / 18(14-4)	
Total Credit Hours		18(15-3) / 18(14-4)				
SEMESTER II			Semester II			
ARE-302	MICROECONOMICS-I	3(3-0)	ARE-302	MICROECONOMICS-I	3(3-0)	Major
STAT-302	INTRODUCTORY STATISTICS	2(2-0)	HORT-302	FUNDAMENTAL HORTICULTURE	3(2-1)	Allied
AGR-302	FIELD CROP PRODUCTION	3(2-1)	ENT-301	INTRODUCTORY ENTOMOLOGY	2(1-1)	Allied
HORT-304	INTRODUCTORY HORTICULTURE	3(2-1)	AH-402	INTRODUCTION TO ANIMAL HUSBANDRY	3(2-1)	Allied
SES-302/ ENV-301	INTRODUCTION TO ENVIRONMENTAL SCIENCE	2(2-0)	ENG-314	EXPOSITORY WRITING	3(3-0)	GE
ENT-401	INTRODUCTORY ENTOMOLOGY	2(1-1)	SSH-303	IDEOLOGY AND CONSTITUTION OF PAKISTAN	2(2-0)	GE
AH-402	INTRODUCTION TO ANIMAL HUSBANDRY	3(2-1)	PY-307	FUNDAMENTALS OF NATURAL SCIENCES	3(2-1)	GE
IS-402	TARJUMA QURAN		TGM-302	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	
Total Credit Hours		19(15-4)	Total Credit Hours		19(15-4)	
SEMESTER III			SEMESTER III			
ARE-401	MICROECONOMICS-II	3(3-0)	ARE-401	MICROECONOMICS-II	3(3-0)	Major
PBG-401	ELEMENTARY GENETICS AND PLANT BREEDING	3(2-1)	ARE-405	MACROECONOMICS-I	3(3-0)	Major
FRW-401	AGRO-FORESTRY, RANGE AND WILDLIFE MANAGEMENT	3(2-1)	PBG-401	FUNDAMENTALS OF PLANT BREEDING AND GENETICS	3(2-1)	Allied
FMP-405	FARM MECHANIZATION	2(1-1)	FMP-405	FARM MECHANIZATION	2(1-1)	Allied

VMD-401	INTRODUCTION TO VETERINARY PREVENTIVE MEDICINE	2(1-1)	MATH-408	QUANTITATIVE REASONING-I	3(3-0)	GE
RS-409	RURAL SOCIOLOGY AND DEVELOPMENT	2(2-0)	BMS-402	ENTREPRENEURSHIP	2(2-0)	GE
IS-401 / SSH-402	ISLAMIC STUDIES /	3(3-0) /	IS-401/	ISLAMIC STUDIES/	2(2-0)	GE
	ETHICS FOR FOREIGNERS OR NON-MUSLIMS	3(3-0)	SSH-306	ETHICS		
IS-403	ROHANIAT		IS-402/SSH-403	TARJUMAH QURAN / INTERFAITH HARMONY	1(1-0) NC	Compulsory
Total Credit Hours		19(15-4)	TGM-401	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	
SEMESTER IV			SEMESTER IV			
ARE-402	ECONOMY OF PAKISTAN	3(3-0)	ARE-402	MACROECONOMICS-II	3(3-0)	Major
ARE-404	MATHEMATICAL ECONOMICS	3(3-0)	ARE-404	MATHEMATICAL ECONOMICS	3(3-0)	Major
ARE-406	MACROECONOMICS-I	3(3-0)	ARE-406	AGRICULTURAL FINANCE	3(3-0)	Major
ARE-408	INTRODUCTION TO ENVIRONMENTAL ECONOMICS	2(2-0)	HE-407	ART, CRAFT AND CALLIGRAPHY	2(1-1)	GE
ARE-410	AGRICULTURAL FINANCE	3(3-0)	RS-409	RURAL SOCIOLOGY AND DEVELOPMENT	2(2-0)	GE
PP-402	INTRODUCTORY PLANT PATHOLOGY	3(2-1)	EDU-306	CIVICS AND COMMUNITY ENGAGEMENT	2(2-0)	GE
FST-301	ESSENTIALS OF FOOD SCIENCE AND TECHNOLOGY	3(2-1)	STAT-408	QUANTITATIVE REASONING – II	3(3-0)	GE
Total Credit Hours		20(18-2)	IS-403	ROHANIAT / MORAL PHILOSOPHY	1(1-0) NC	Compulsory
			TGM-402	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	
SEMESTER V			SEMESTER V			
ARE-501	MACROECONOMICS-II	3(3-0)	ARE-501	INTRODUCTION TO ENVIRONMENTAL ECONOMICS	3(3-0)	Major
ARE-503	PRODUCTION ECONOMICS	3(2-1)	ARE-503	PRODUCTION ECONOMICS	4(3-1)	Major
ARE-505	INTRODUCTION TO ECONOMETRICS	3(2-1)	ARE-505	INTRODUCTION TO ECONOMETRICS	3(2-1)	Major
ARE-507	PROJECT MANAGEMENT AND EVALUATION	3(3-0)	ARE-507	PROJECT MANAGEMENT AND EVALUATION	3(3-0)	Major
STAT-502	STATISTICAL METHODS FOR ECONOMISTS	3(3-0)	ARE-515	LAND ECONOMICS	3(3-0)	Major
MAB-507	INTRODUCTION TO AGRIBUSINESS	2(2-0)	ARE-509	RESEARCH METHODS FOR ECONOMISTS	3(2-1)	Major
ARE-509	RESEARCH METHODS FOR ECONOMISTS	3(2-1)	TGM-501	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	
Total Credit Hours		20(17-3)	Total Credit Hours		19 (16-3)	
SEMESTER VI			SEMESTER VI			
ARE-502	AGRICULTURAL POLICIES: THEORY AND PRACTICE	3(3-0)	ARE-502	AGRICULTURAL POLICIES: THEORY AND PRACTICE	4(3-1)	Major
ARE-504	DEVELOPMENT ECONOMICS	3(3-0)	ARE-504	DEVELOPMENT ECONOMICS	3(3-0)	Major
ARE-506	TIME SERIES ANALYSIS	3(2-1)	ARE-506	TIME SERIES ANALYSIS	3(2-1)	Major
ARE-508	HUMAN RESOURCE MANAGEMENT	3(3-0)	ARE-508	HUMAN RESOURCE MANAGEMENT	3(3-0)	Major
MAB-520	FUNDAMENTAL OF AGRICULTURAL MARKETING	3(3-0)	MAB-520	FUNDAMENTALS OF AGRICULTURAL MARKETING	3(3-0)	Allied
MAB-518	INTERNATIONAL TRADE THEORY	3(3-0)	ARE-516	INTERNATIONAL TRADE THEORY	3(3-0)	Major

Total Credit Hours		18(17-1)	TGM-502	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	
				Total Credit Hours	19(17-2)	
SEMESTSER VII			SEMESTER VII			
ARE-601	FARM PLANNING AND BUDGETING	3(3-0)	ARE-601	FARM PLANNING AND BUDGETING	3(2-1)	Major
ARE-603	SOFTWARE APPLICATIONS IN ECONOMIC ANALYSIS	2(0-2)	ARE-603	SOFTWARE APPLICATIONS IN ECONOMIC ANALYSIS	2(0-2)	Major
Elective	4 x 3	12	Optional Courses	4 x 3	12	Major
Total Credit Hours		17(15-2) /	TGM-601	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	
		17 (14-3)		Total Credit Hours	17(14-3) / 17 (13-4) / 17(12-5)	
SEMESTER VIII			SEMESTER VIII			
ARE-612	INTERNSHIP AND EXTERNAL EVALUATION	6(0-6)	ARE-612	INTERNSHIP	3(0-3)	Field Experience / Internship
	Total Credit Hours	6(0-6)	ARE-614	CAPSTONE PROJECT	3(0-3)	Capstone Project
Grand Total Credit Hours		137		Total Credit Hours	6(0-6)	
				Grand Total Credit Hours	134	

Course code	Course Title	Credit Hours	Course code	Course Title	Credit Hours
ARE-605	ECONOMICS OF LIVESTOCK PRODUCTION	3(3-0)	ARE-605	ECONOMICS OF LIVESTOCK PRODUCTION	3(3-0)
ARE-607	ISLAMIC ECONOMICS	3(3-0)	ARE-607	ISLAMIC ECONOMICS	3(3-0)
ARE-609	RURAL DEVELOPMENT	3(3-0)	ARE-609	RURAL DEVELOPMENT	3(3-0)
ARE-611	MANAGEMENT OF NATURAL RESOURCES	3(3-0)	ARE-611	MANAGEMENT OF NATURAL RESOURCES	3(3-0)
ARE-613	ENVIRONMENT AND SUSTAINABLE DEVELOPMENT	3(3-0)	ARE-613	ENVIRONMENT AND SUSTAINABLE DEVELOPMENT	3(3-0)
ARE-615	MANAGERIAL ECONOMICS	3(3-0)	ARE-615	MANAGERIAL ECONOMICS	3(3-0)
ARE-617	LAND USE AND URBANIZATION	3(3-0)	ARE-617	LAND USE AND URBANIZATION	3(3-0)
ARE-619	RISK, UNCERTAINTY AND INSURANCE IN AGRICULTURE	3(3-0)	ARE-619	RISK, UNCERTAINTY AND INSURANCE IN AGRICULTURE	3(3-0)
MAB-603	CONSUMER BEHAVIOR	3(3-0)	MAB-603	CONSUMER BEHAVIOR	3(3-0)
MAB-621	FUNDAMENTALS OF AGRICULTURAL PRICE ANALYSIS	3(3-0)	MAB-621	FUNDAMENTALS OF AGRICULTURAL PRICE ANALYSIS	3(3-0)
MKT-703	DIGITAL MARKETING	3(2-1)	MKT-602	SOCIAL MEDIA MARKETING	3(2-1)
			SOC-416	INTRODUCTION TO LOCAL GOVERNMENT SYSTEM	3(2-1)

Courses Offered to other Degree Programs

Course code	Course Title	Credit Hours
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AE-414	RESOURCE AND ENVIRONMENTAL ISSUE OF AGRARIAN ECONOMY	3(3-0)
AE-504	DAIRY BUDGETING AND ACCOUNTS MANAGEMENT	3(3-0)
AE-602	ECONOMICS FOR ENGINEERS	3(3-0)
AE-604	ENGINEERING ECONOMICS AND MANAGEMENT	3(3-0)
AE-607	MARKETING OF DAIRY ANIMAL AND PRODUCTS	3(3-0)
AE-306	INTRODUCTION TO AGRICULTUAL ECONOMICS	3(3-0)
AE-410	PRINCIPLES OF FOREST AND RESOURCE ECONOMICS	3(3-0)
AE-505	LIVESTOCK ECONOMICS AND BUSINESS MANAGEMENT	2(2-0)
AE-507	PRINCIPLES OF DAIRY ECONOMICS	3(3-0)

**Scheme of Studies for B.Sc. (Hons.) Agricultural and Resource Economics (Composite)
Degree Program**

SEMESTER-V			
ARE-511	MICROECONOMICS	4(3-1)	Major
ARE-503	PRODUCTION ECONOMICS	4(3-1)	Major
ARE-505	INTRODUCTION TO ECONOMETRICS	3(2-1)	Major
ARE-507	PROJECT MANAGEMENT AND EVALUATION	3(3-0)	Major
ARE-513	AGRICULTURAL FINANCE	3(3-0)	Major
ARE-509	RESEARCH METHODS FOR ECONOMISTS	3(2-1)	Major
TGM-501	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	Compulsory
TOTAL CREDIT HOURS		20(16-4)	
SEMESTER-VI			
ARE-512	MACROECONOMICS	4(3-1)	Major
ARE-502	AGRICULTURAL POLICIES: THEORY AND PRACTICE	4(3-1)	Major
ARE-504	DEVELOPMENT ECONOMICS	3(3-0)	Major
ARE-514	MATHEMATICAL ECONOMICS	3(3-0)	Major
MAB-520	FUNDAMENTALS OF AGRICULTURAL MARKETING	3(3-0)	Allied
ARE-516	INTERNATIONAL TRADE THEORY	3(3-0)	Major
TGM-502	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	Compulsory
TOTAL CREDIT HOURS		20(18-2)	
SEMESTER-VII			
ARE-601	FARM PLANNING AND BUDGETING	3(2-1)	Major
ARE-603	SOFTWARE APPLICATIONS IN ECONOMIC ANALYSIS	2(0-2)	Major
ARE-623	INTRODUCTION TO ENVIRONMENTAL ECONOMICS	3(3-0)	Major
MAJOR (ELECTIVE)	4 X 3	12	Major
TGM-601	TUTORIAL GROUP MEETING FOR SOFT SKILLS	NCC	Compulsory
TOTAL CREDIT HOURS		20(17-3) / 20(16-4) / 20(15-5)	
SEMESTER-VIII			
ARE-612	INTERNSHIP	3(0-3)	Field experience/internship

ARE-614	CAPSTONE PROJECT	3(0-3)	Capstone project
	TOTAL CREDIT HOURS	6(0-6)	
	GRAND TOTAL CREDIT HOURS	144	

List of Optional Courses

Optional Courses (7 th Semester)		
Course code	Course Title	Credit Hours
ARE-605	Economics of Livestock Production	3(3-0)
ARE-607	Islamic Economics	3(3-0)
ARE-609	Rural Development	3(3-0)
ARE-611	Management of Natural Resources	3(3-0)
ARE-613	Environment and Sustainable Development	3(3-0)
ARE-615	Managerial Economics	3(3-0)
ARE-617	Land Use and Urbanization	3(3-0)
ARE-619	Risk, Uncertainty and Insurance in Agriculture	3(3-0)
MAB-603	Consumer Behavior	3(3-0)
MAB-621	Fundamentals of Agricultural Price Analysis	3(3-0)
MKT-602	Social Media Marketing	3(2-1)
SOC-416	Introduction to Local Government System	3(2-1)

Summary of first- four semesters

Major CH	36
General Education CH	30
Allied courses CH	12
Total	78

After four semesters

Major CH	57
Allied Courses CH	03
Internship and Capstone	06
Total	66
Degree total	78 + 66 = 144