



WHY BS-ECONOMICS AND MATHEMATICS

AT IBA?

The BS Economics and Mathematics program offers a strong foundation in economic theory, quantitative methods, and applied research. Students gain the analytical skills needed for roles in the private sector, public policy, development organizations, banking, and academia. A final-year research project allows students to apply economic tools to real-world issues, preparing them for both professional and academic careers.

- 127 credit hours, capstone project and internship
- 4 years Full-time completion time
- Hands-on research and real-world application
- Focus on ethics and civic engagement
- Interdisciplinary learning approach
- Strong economics core and electives



SCHOOL OF ECONOMICS & SOCIAL SCIENCES



IBA is located in Karachi — the financial hub of Pakistan — and is one of the country's most prestigious higher education institutions.

Its School of Economics and Social Sciences (SESS) is a dynamic academic hub that brings together two departments, two research centers, and three specialized labs. The school hosts over 1,000 students with a balanced male-to-female ratio (48:52), fostering diversity and inclusivity. With 45+ PhD faculty members, SESS emphasizes academic rigor, research excellence, and global engagement. Students benefit from international exchange opportunities, research grants, and vibrant campus life. SESS maintains global connections with a 1,200+ strong alumni network across the US, UK, Germany, Turkey, Canada, and beyond—many of whom have pursued graduate studies on prestigious scholarships like Fulbright, Erasmus, DAAD, and Chevening.

COURSE STRUCTURE

SEMESTER 1

- Principles of Microeconomics
- Introduction to Computer Application
- Introduction to Statistics
- Critical Reading and Speech Communication
- Pakistan History
- College Algebra*

SEMESTER 3

- Principles of Macroeconomics
- Calculus I
- Statistical Inference
- Introduction to Psychology/ Fundamentals of Sociology/Anthropology
- Introduction to Philosophy
- Islamic Scholarly Traditions (IST)/ Philosophy, Logic, and Ethics **

SEMESTER 2

- Intermediate Microeconomics
- Linear Algebra
- Calculus II
- Introduction to Academic Writing
- Fundamentals of Entrepreneurship
- Civic & Community Engagement

SEMESTER 4

- Intermediate Macroeconomics
- Mathematical Economics
- Essential Software
- Physics/Mechanics/Electricity, Magnetism, Waves
- Non-specialization Elective

ELECTIVE COURSES

BS Economics and Mathematics students select from diverse electives such as Behavioral Economics, Machine Learning, and Public Finance, allowing them to align their studies with research or career goals. Electives vary by semester and prerequisites.

SCHOLARSHIPS, GRANTS & FINANCIAL ASSISTANCE

Installment Plan: The students can apply for 2-3 installments per semester. However, the installments must be paid within the same semester.

Qarz-e-Hasna: The IBA facilitates its students in securing an interest-free loan (Qarz-e-Hasna) to pay their tuition fee during their study period.

Need-based Financial Assistance: The IBA encourages aspiring students from diverse social backgrounds to enroll and study at the IBA.

Research & Teaching Assistantships (RA/TA): IBA offers part-time, paid opportunities for students to work as Research Assistants (RAs) or Teaching Assistants (TAs) as part of its financial assistance and academic enrichment initiatives.

SEMESTER 5

- Applied Econometrics I
- Data Analytics for Economists
- Microeconomic Theory
- Macroeconomic Theory
- Economics Elective I

SEMESTER 7

- Impact Evaluation Methods
- History of Economic Thought
- Development Economics
- Economics elective III
- Economics elective IV
- Capstone Project in Economics/Capstone Project in Mathematics

SEMESTER 6

- Applied Econometrics II
- Research Methods for Economics
- Major Issues in Pakistan Economy
- International Trade
- Economics Elective II
- Personal Effectiveness

SEMESTER 8

- Economics elective V
- Economics elective VI
- Non-specialization elective II
- Interdisciplinary/Allied Elective ***
- Capstone Project in Economics/Capstone Project in Mathematics

SUMMER SEMESTER : Internship

*College Algebra (non-credit) is offered to students without a math background, free of charge.

**Muslim students take Islamic Scholarly Tradition; non-Muslims may opt for Philosophy Logic and Ethics.

*** One interdisciplinary elective must be chosen from approved fields like Finance, Social Sciences, or Computer Science.



ACADEMIC ENVIRONMENT

INTERDISCIPLINARY LEARNING & CRITICAL THINKING

At IBA, the BS Economics and Mathematics program promotes rigorous interdisciplinary training through courses that blend economics, mathematics, and analytical reasoning. Students explore complex real-world problems, developing critical thinking and problem-solving skills vital for policy, research, and data-driven decision-making.

RESEARCH LABS & FIELD EXPOSURE

Students gain hands-on research experience through specialized labs and collaborative projects, including access to institutional datasets and empirical tools. The program fosters methodological training and real-world exposure through workshops, simulations, and field-based learning.

SCHOLARSHIP & SOCIAL RELEVANCE

Grounded in IBA's values of excellence and impact, the program encourages students to engage with socially relevant economic issues. Through coursework and research, students are empowered to explore topics in inequality, public policy, and sustainable development with a focus on data-driven solutions.



CAREER OPPORTUNITIES

The students enrolled in the BS Economics and Mathematics program are provided with multiple opportunities to enhance their academic skills and to assist them financially.

- Economic Consultant
- Investment Banking Associate
- Public Sector Economist
- Research Associate
- Actuarial Analyst
- Data Analyst

ELIGIBILITY CRITERIA

Applicants must have secured a minimum of 60% marks in their HSSC or an equivalent qualification from a recognized educational board or institution.

Admission is granted based on overall performance in the IBA Aptitude Test and a subsequent interview conducted by the admissions committee.

APTITUDE TEST EXEMPTION

Candidates may be exempted from the IBA Aptitude Test for the BS Economics and Mathematics program if they submit a minimum SAT score (based on merit), an ACT composite score of 28, or equivalent international qualifications. However, exemption is competitive, and appearing for the IBA Aptitude Test is strongly encouraged to enhance admission chances.



<https://economics.iba.edu.pk/bs-em.php>

FOR MORE INFORMATION



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SCHOOL OF ECONOMICS & SOCIAL SCIENCES BS - ECONOMICS AND MATHEMATICS

ECONOMICS · MODELLING · INSIGHT

UNDERGRADUATE PROGRAM