

Why to study Zoology as Major subject in Colleges

**By Dr. Bipan C. Rathore, P.HD Zoology (Wildlife Science),
Principal, JLNGC Haripur(Manali)**

Zoology is one of the most popular branches in Science that involves the study of animals and their biological processes. Zoology courses are offered at the graduate and postgraduate levels both full-time and part-time. Candidates can also opt for Ph.D. in Zoology after completing their post-graduation. Candidates in this discipline are basically taught regarding animal anatomy, physiology, biochemistry, genetics, evolution, ecology, behavior, and conservation

Career options after pursuing a BSc, MSc and Ph.D. in Zoology are varied.

Candidates find opportunities in government departments, environmental agencies, universities, colleges, biotechnological, pharmaceutical, environmental/ecological fields.

Zoology Courses– Eligibility & Entrance Exams

The eligibility criteria for Zoology courses are given below –

UG Courses – The minimum eligibility for admission in BSc in Zoology is Class 12 pass in Science Stream. Candidates must have studied Physics, Chemistry, and Biology in Class 12.

PG Courses – Candidates must have passed BSc/BSc (Hons) in Zoology. Candidates who have passed BSc/BA in medical and allied medical sciences/biosciences/life sciences are also eligible to apply.

Ph.D. Programmes – Post graduation in relevant discipline with 55% (50% for SC/ST candidates).

Zoology Syllabus

The syllabus for Zoology is different for different courses and is divided into various semesters. The course teaches candidates regarding the function, structure, and evolution of animals. Candidates also study the beginning, origin, and development of species, their behaviors, their habits, and interactions. The subjects taught in Zoology are as follows –

Morphology	Biochemistry
Physiology	Immunology
Cell and Molecular Biology	Embryology
Biotechnology	Genomics

Genetics Evolution	Ecology
Biosystematics, Structure, and Functions of Invertebrates	Biosystematics, Structure, and Functions of Invertebrates
Tools and Techniques in Biology	Animal Physiology and Ethology
Genetics and Evolution	Structure and Function of Vertebrates
Environmental Biology	Biology of Parasitism
Chronobiology	Proteins- Structure, Functions, and Evolution
Structure and Function of Genes	Animal Behaviour

Zoology Courses – Career Prospects

There are numerous career opportunities for candidates completing their BSc, MSc, and Ph.D. in Zoology in the public and private sectors. Candidates find jobs as Animal Behaviourist, Conservationist, Wildlife Biologist, Zoo Curator, Wildlife Educator, Zoology faculty, Forensic experts, lab technicians, Veterinarians. The salary offered to these posts are given below.

Job Profile
Veterinarians
Wildlife Biologist
Conservationist
Wildlife Educator
Zoology faculty/Scientist/Professors/Lecturers/Teachers
Forensic experts

Career Opportunities after BSc Biology

Some of the employment areas where you can utilize your talent with a higher degree in Biology are as follows:

- Agricultural Research Services
- Biotechnology Firms
- **Botanical Gardens**

- **Botanical Survey**
- Broadcast Companies
- Clinical Research Organizations
- **Colleges/Universities**
- Conservatories
- Environmental Management and Conservation
- Farm Management Organizations
- Fermentation Industries (including Breweries)
- Fertilizer & Chemicals Plants
- Food Institutes
- Plant Genetics
- Herbal Products Companies

- Plant Genetics Research Centres
- Research and Development Firms
- Scientific and Medical Equipment Suppliers
- Medical Research
- Medical Laboratories
- National Parks
- Pharmaceutical Companies
- Seed And Nursery Companies
- Wildlife and Fishery Departments

Zoological Surveys

A Master or Doctorate degree holder in Biology gets a good position/ job according to his/ her knowledge and experience. It offers ample job opportunities which include the following:

- Biology Content Developer
- Biology Researcher
- Biological Technician
- **Botanist**
- Conservationist
- **Ecologist**
- Environment Consultant
- Farming Consultant
- **Forester**
- Geneticist
- **Horticulturist**
- Laboratory Technician
- Molecular Biologist
- Museum Educator
- Mycologist

- Natural Resources Manager
- Nursery Manager
- Plant Biochemist
- **Plant Explorer**
- Plant Researcher
- Science Adviser
- **Taxonomist**
- Weed Scientist

BSc Zoology mainly constitutes the following subjects :

Animal Physiology

Functional Histology

Environmental Sciences

Molecular Biology

Ecology

Biodiversity

Biochemistry

Immunology

Cell Biology

Developmental Biology

Genetics & Genomics

Evolutionary Biology

Biotechnology

Bioinformatics

Applied Zoology

After master's you can find job opportunities in academics and research. Research institutes and laboratories, universities, veterinary hospitals and animal clinics, organization's dealing with fisheries and aquaculture are some of the areas providing employment to zoologists.

So Zoology (along with Botany and Chemistry) is the **ideal subject** to understand life and living. It includes almost all aspects of life, especially the relationship among the various organisms. We learn that there is unity in diversity. When you study zoology you become more philosophical(not religious) in your approach to “problems” of life. You’ll enjoy your (short) life and let others (organisms) live.

Don't worry if you do not get admission in any professional course, **join Zoology (or any other basic science course), you will definitely be successful in your life.**