Certificate in Reptile Conservation

Course Guide

careers collective

Certificate in Reptile Conservation

Turn your passion for wildlife into a successful career

This course is designed to give you an introduction into reptile and amphibian biology, behaviour and classification. You will also gain a greater understanding of relevant conservation issues affecting these fascinating creatures.

Wild animal species are under threat everywhere; from oceans to deserts, and rainforests to grasslands.

Animals are essential to the our ecology in ways that don't always seem obvious; and the importance of conserving wildlife, cannot be over stated. This course is tutored by experts actively working in the field and will work with you to build your expertise in topics such as herpetology, reptile biology, amphibian biology, ecology, conservation issues and much more...

This course will be the perfect pathway to stand out against your competition and break into this competitive industry.

Perfect for animal lovers looking to make a tangible difference to the protection and conservation of reptiles.

About us

Careers Collectiv is about practical education with a focus on providing courses relevant to real life. We help you gain the knowledge, skills and confidence to try a new career path, broaden your professional development, start a new business or explore a passion and deepen your understanding in a special interest.

Careers Collectiv was founded by a family who are passionate about providing quality education, accessibility for everyone and the flexibility to work at your own pace and in your own time. They have over a decade of experience in the online education sector after establishing a college specialising in the beauty industry.

Our teachers

We only use teachers who are active in their specialised industry. Learn from people who have first-hand experience in their subject matter and current industry expertise. Staff come from varied backgrounds with teaching and vocational experience from universities and vocational colleges.

Courses provide flexible options for different career pathways, self-improvement, professional development and general adult education.

We give our students the skills, tools and structure to learn in real life situations without compromising on academic excellence.

Recognition

All Careers Collectiv courses come with a certificate of attainment upon completion.

Our courses are accredited with the International Approval and Registration Centre (IARC), a non-profit association providing a quality control system for education programs and courses in international education.

Certificate in Reptile Conservation

Start working for the protection of animals

Reinforce your love of animals with a qualification and take that first step towards a career in the conservation and welfare of reptiles. Developed in response to industry demand, the Certificate in Reptile Conservation will teach you the theory and practice of reptiles, amphibians and the conservation of these important animals. Receive a strong foundation with a whole module focused on herpetology to give you a head start with additional knowledge about the creatures biology, characteristics, ecology and conservation issues that are typically needed in this sought after field.

Who is the course for?

This course is designed for students with no previous experience in reptile conservation or anyone working with wildlife or animal serviceslooking to upskill.

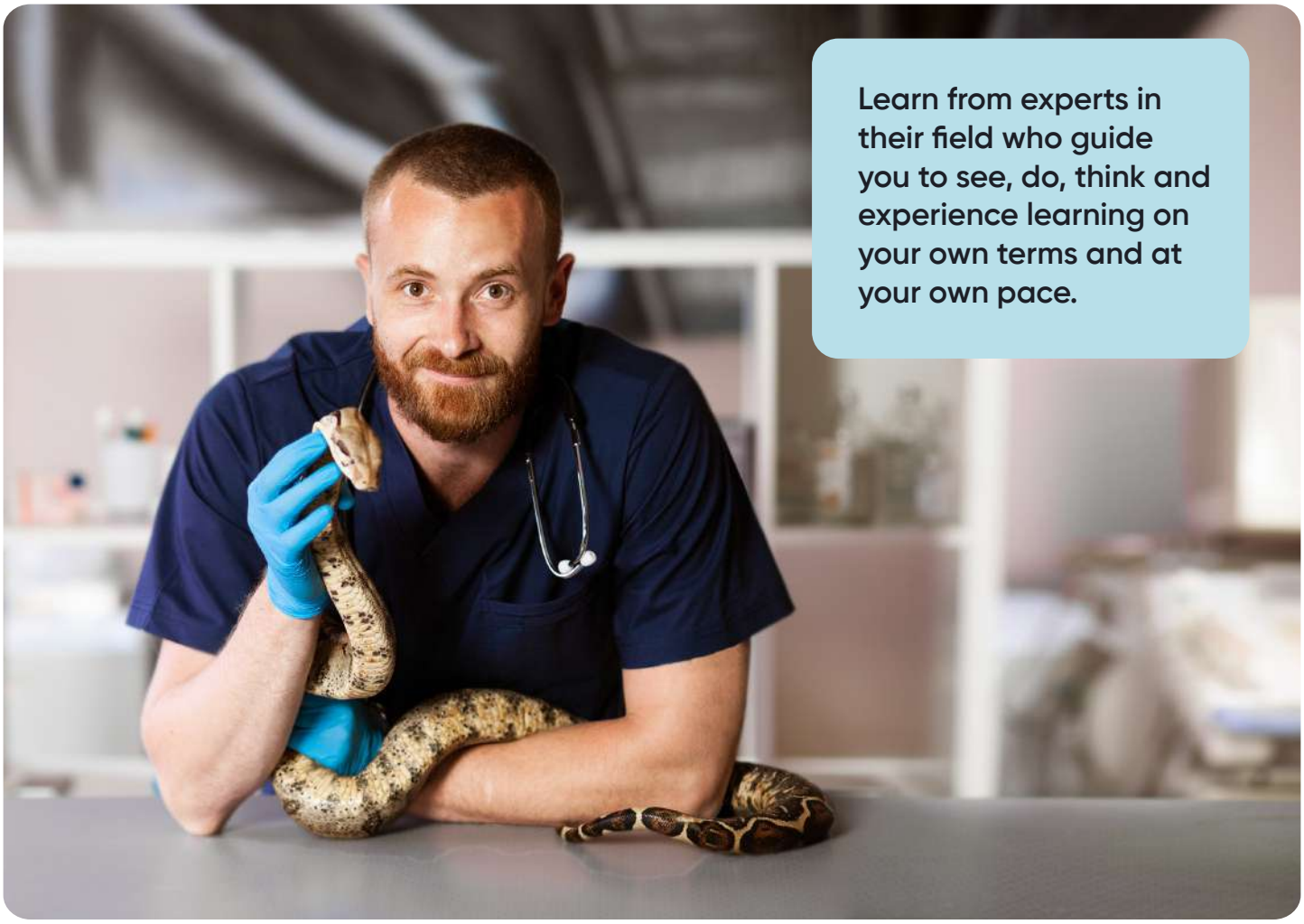
It's perfect for anyone passionate about animals, who want to learn the skills for career opportunities in the protection and conservation of wildlife.

2 modules

200 hours

This course has 2 main core modules

- Herpetology
- Wildlife Conservation



Learn from experts in their field who guide you to see, do, think and experience learning on your own terms and at your own pace.

A well rounded learning experience

In this course you will develop an ability to understand the biological and ecological characteristics of reptiles and amphibians as well as relevant conservation issues and how to effectively provide value in this field. Herpetology examines the biology and ecology of these animals and their importance at a global scale. With a generation of wildlife professionals retiring, and a number of worldly trends now impacting our wildlife more than ever, now is the time to study to become a wildlife professional.

Entry requirements

You will need a computer, tablet or other device to access the course work and submit your assessments.

Assignments

Each lesson in your course modules culminate in an assignment which is submitted online, marked by the tutors and returned to you with suggestions and feedback.

Career outcomes

- Reptile Conservationist
- Zoos
- Wildlife Sanctuaries
- Animal Care Worker
- Animal Services
- Wildlife Manager
- Wildlife Shelter

Course modules

1 Herpetology

1 Introduction to Herpetology
- Herpetology Defined
- Introduction to Reptiles
- Animal Taxonomy
- Classification of Reptiles
- Characteristics of Reptiles
- Testudine Characteristics (Turtles)
- Squamata Characteristics (Snakes & Lizards)
- Rhynchocephalia Characteristics (Tuatara)
- Classification of Amphibians
- Amphibian Characteristics
- Building Resources and Developing Networks
- Terminology

2 Class Reptilia (Reptiles)
- Reptile Classification
- Water Conservation
- Reproduction
- Order Chelonia (Testudines); Turtles
- Order Crocodilia; Crocodilians
- Order Squamata
- Scaled Reptiles; Lizards (Suborder Sauria) and Snakes (Suborder Serpentes)

3 Reptile Biology
- Reptile Anatomy
- Skeleton
- Scales and Skutes
- Ectothermal Regulation
- Coloration
- Respiration and Metabolism
- Food and Digestion
- Senses
- Locomotion

4 Class Amphibia (Amphibians)
- Order Anura (Frogs and Toads)
- Order Apoda (Caecilians)
- Order Urodela (Salamanders and Newts)

5 Amphibian Biology
- Amphibian Skeleton
- Skin
- Ectothermal Regulation
- Colouration
- Respiration and Metabolism
- Branchial
- Buccopharyngeal
- Cutaneous
- Pulmonic
- Food and Digestion
- Senses
- Locomotion
- Reproduction

6 Ecology of Reptiles
- Species Richness
- Constriction
- Injected Venom
- Inertia Feeding
- Biting and Grasping
- Suction Feeding
- Reproductive Strategies
- Viviparity
- Oviparity
- Nest Building
- Habitat Use: Aquatic and Terrestrial
- Basking
- Hibernation

7 Ecology of Amphibians
- Use of Habitat
- Temperature Relationships
- Feeding
- Vocal Communication: Advertisement calls, Territorial calls, Release calls, Distress calls
- Social Behaviour
- Dealing with Predators
- Reproduction and Parental Care

Course modules

1 Herpetology (continued)

8 Conservation Issues

- Habitat Change
- Edge Effects
- Pollution; especially Water Pollution
- Environmental Acidification (Acid Rain)
- Pesticides
- Endocrine Disrupting Chemicals
- Spread of Disease
- Invasive Species
- Climate Change
- Spread of Disease
- Disease in Wild Populations
- Trade in Reptiles and Amphibians
- Conservation
- Conservation Genetics
- Endocrine Disrupting Chemicals

9 Keeping Reptiles and Amphibians

- Introduction
- Legal Issues
- Special Conditions for Amphibians
- Special Conditions for Reptiles
- Preventing Spread of Disease from Reptiles to Humans
- Housing
- Reptile Captivity Problems
- Reptile Feed and Feeding
- Amphibians and Reptile Species that are in Captivity
- Feeding Amphibians
- General Care
- Common Ailments in Reptiles and Amphibians
- Parasitic Diseases
- Fungal Diseases
- Viral Diseases
- Metabolic Bone Disease
- Thiamine Deficiency

2 Wildlife Conservation

1 Introduction to Wildlife Conservation

- What is wildlife conservation
- The need for wildlife conservation
- Important concepts ecology, ecosystem, biome, conservation values, biological diversity, genetic drift, habitat, life span, wildlife movement and wildlife management.
- Threatening processes habitat fragmentation, habitat degradation and loss, soil degradation, erosion, pollution, unsustainable harvesting, invasive species, climate change, population isolation and disease.
- Biodiversity indicators
- Terminology

2 Recovery of Threatened Species

- Loss of species categories of risk
- Species vulnerability to endangerment
- Recovery of species and threat management
- Habitat Conservation identifying critical habitat and protecting habitat
- Research population growth, habitat use and conservation genetics
- Captive breeding
- Translocation
- Public involvement

3 Habitat Conservation

- Habitat
- Types of Habitat eg. temperate and tropical forests, woodland, tundra and mangrove habitats
- Habitat Use
- Species Richness
- Habitat Fragmentation
- Creating Habitats
- Restoration Ecology creating habitatcorridors, situating corridors, types of corridors, edge effects
- Habitat Rehabilitation implementing a land management program, determining objectives, determining a program

Course modules

2 Wildlife Conservation (continued)

- The Role of GIS in Conservation
- The Role of Protected Areas levels of protection, approaches to reserve selection and limitation of reserves.

4 Approaches to Conservation of Threatened Wildlife

- Species Approach modelling demography, effective population size, small populations, population viability analysis (PVA)
- Landscape Approach elements of landscape ecology, distribution of populations within a landscape, landscape modelling
- Ecosystem Approach the need for ecosystem management, understanding dynamics, adaptive management, objectives for ecologically sustainable forest management.

5 Vegetation Surveys

- Plant Identification common names, scientific names, levels of division, botanical keys
- Vegetation survey techniques such as quadrat surveys, landscape assessments, line surveys.
- Vegetation Mapping remote sensing data.

6 Fauna Surveys

- Observation techniques spotlighting, scat surveys, census techniques
- Trapping Techniques radio tracking, call recordings, pit fall traps, Elliot traps.
- Species identification

7 Marine Conservation

- Reef Surveys
- Habitat Surveys
- Aerial Surveys
- Overexploitation
- Commercial Fish Stock Management

8 Planning for Wildlife

- Farm Planning
- Urban Planning
- Use of GIS

9 Management

- Managing Threatened Wildlife Populations manipulating populations, revegetation/ restoration, creating corridors, pest control plans, fencing for species,fire breaks.

10 Wildlife Conservation Project

Course overview

Course duration

This course is made up of 2 in-depth modules. The amount of study time required to complete this course is approximately 200 hours.

Supporting you in your studies

With our courses you are not on your own. Careers Collectiv provides the highest level of support possible

Our tutors will provide direct feedback on your assessments and will be available for you during your studies and after, even if you complete your course.

Equipment

You will need a computer, tablet or other device to access the course work and submit your assessments. If you do not have one a tablet can be provided for you.

Certification

A certificate of attainment will be issued upon completion of your course.

Careers Collectiv Benefits

- Study from anywhere, anytime
- No experience required
- No set deadlines
- 2 years course access, option to extend upon request

Flexible payment options

This course can be paid off through an interest free payment plan for $25 per week.

The overall price will vary depending on the options you select. We also offer a discount for upfront payments.

To find out more about the course that best suits your needs, talk to one of our career advisors on 1300 001 703.

Call our career advisors for payment options on 1300 001 703

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