Why study at Stirling

1. Well established and recognised international centre of excellence in aquaculture research and teaching

2. Flexible degrees allowing graduation from a variety of pathways

3. Excellent aquaculture and aquatic animal health laboratories

4. Field, laboratory or case study work based on a current topic in aquaculture, either in the UK or abroad

5. Links and partnerships with over 50 countries around the world

Institute facilities
Our laboratories provide facilities to conduct pioneering and commercially relevant research in partnership with leading aquaculture companies. We’ve four research facilities providing a range of environmental conditions: marine, freshwater, temperate and tropical. Our systems include recirculating aquaculture systems, challenge unit, constant temperature rooms, hatchery and facilities for invertebrates.

On-campus facilities
- Stirling Analytical Platforms
- Stirling Experimental Aquatic Facilities

Off-campus facilities
- Niall Bromage Freshwater Research Unit (NBFUR): Buckieburn, Denny
- Macrhiranish Marine-Environmental Research Laboratory (MMERL): Machrihanish, Campbeltown

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Photography: For a list of photographers who have contributed to the University of Stirling photo library, contact: marketingtools@stir.ac.uk
This publication can be made available in different formats. Please contact Student Recruitment and Admissions for further information: recruitment@stir.ac.uk
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Careers

Studying aquaculture or aquatic animal health can open up a wide range of career opportunities in one of the world’s youngest and fastest-growing food production sectors. An MSc will open up routes into industry including production, the supply sector (feed, health, equipment and systems), or post-harvest (processing and marketing), e.g.:
- Scientist, e.g. Analytical Researcher in R&D projects
- Fisheries Technologists, e.g. Hatcheries
- Nutrition Technologists (fish feed)
- Trained Fish Farm Manager
- Commercial Fish Farm Operator
- Agriculture Manager (Food Supply)
- Fish Pathologist / Fish Vet

With a Masters

MSC SUSTAINABLE AQUACULTURE

aquatic pathobiology

aquatic veterinary studies

redefine at stirling
Our postgraduate degrees teach students about all subjects relevant to global aquaculture, including many different species and culture systems.

Our teaching will provide an excellent foundation for a successful career in aquaculture, aquatic animal health and related fields, or will upgrade your knowledge and skills if you are more experienced and looking to move forward from your current position or transition to a new area.

We use our research and expertise to ensure our teaching is at the forefront of new sciences in aquaculture, so a Master’s Degree is also an excellent pathway to a more research-based career.

### Course Offerings

We offer MSc modular courses in the following areas:

- Sustainable Aquaculture
- Aquatic Veterinary Studies
- Aquatic Pathobiology

These highly flexible courses are built from a series of modules, most of which are further sub-divided into two topics. Each course comprises three sections (normally one per semester).

1. **Foundation modules** – For most courses there is a common core of three modules consisting of six topics which contain the basics of all aspects of aquaculture from biology and health of aquatic organisms, environmental considerations, nutrition and genetics and production systems.

2. **Advanced modules** – For most courses there are three advanced modules which allow students to specialise towards their specific degree outcome.

3. **Research project** – A four month research project on a subject relevant to the students’ interest and their particular degree outcome.

This can be based within industry or development studies overseas.

All modules are credit-bearing under the Scottish Qualifications Framework and this modular structure allows a variety of flexible study modes.

Depending on the number of modules studied, you can be awarded a: Master of Science, Postgraduate Diploma in Sustainable Aquaculture or Postgraduate Certificate.

**Courses can be followed either full time or by discontinuous study (part time) over a period of up to 5 years, or by a combination of these study modes.**

**Entry Requirements**

A minimum of a second class honours degree or equivalent in a relevant subject. Applicants without these formal qualifications but with significant appropriate/relevant work experience are encouraged to apply.

For more information about the course visit: stir.ac.uk/SACF

**MSc Sustainable Aquaculture**

This course is highly modular, and has been designed to offer considerable flexibility for learning whilst maintaining a high standard of training. This structure lets you make more subject choices which will benefit your future career.

There are a number of degree pathways available. These differ primarily in their defined path of required modules - you can choose to follow a named pathway or exercise maximum flexibility of module choice with just the Sustainable Aquaculture degree. The more specialised degree pathways are:

- **First Advanced Module**
  - Principles of Aquaculture
  - Aquaculture Husbandry
  - Aquaculture Systems

- **Second Advanced Module**
  - Environmental Systems, or
  - Aquaculture Business Design and Management

- **Third Advanced Module**
  - Husbandry for Aquaculture Development, or
  - Global Aquatic Resources

Research Project and Dissertation

The research project is an opportunity for students to engage with a topic of particular interest and is often linked with ongoing research projects at the Institute of Aquaculture and may involve working with other external/industrial partners including industry. It develops skills in the conduct of research, critical analysis of results and presentation and communication of findings.

**MSc Aquatic Pathobiology**

Currently the only Masters degree of its kind in the world, Stirling’s course gives you a unique opportunity to study the prevention, diagnosis and treatment of aquatic animal diseases in cultured organisms at the Institute of Aquaculture, one of the top institutions in this field. It combines high-quality, practical work and field visits with class-based training in aquatic disease diagnosis and health management challenges drawn from real situations. You will also gain an understanding of the biology, husbandry and environment of farmed aquatic species. It is also an ideal preparation for students who plan to pursue a PhD or further research.

The course is built up in three phases:

- **Three Foundation Modules** providing the core skills and knowledge:
  - Principles of Aquaculture
  - Aquaculture Husbandry
  - Aquaculture Systems

- **Three Advanced Modules** with two options for each:
  - First Advanced Module
    - Environmental Systems, or
    - Aquaculture Business Design and Management
  - Second Advanced Module
    - Husbandry for Aquaculture Development, or
    - Global Aquatic Resources
  - Third Advanced Module
    - Aquaculture Health Control, or
    - Aquaculture and Society

Entry Requirements

A minimum of a second class honours degree or equivalent in a relevant subject. Applicants without these formal qualifications but with significant appropriate/relevant work experience are encouraged to apply.

For more information about the course visit: stir.ac.uk/9

**MSc Aquatic Veterinary Studies**

Our Aquatic Veterinary Studies course is specifically aimed at students who already have a veterinary science qualification. With wild catches of waifed declining in many places, the rise of aquaculture is playing an increasing role as an alternative source of high-quality, nutritious food. The aquaculture industry is becoming a larger employer and important contributor to economic development in many areas.

Controlling disease is very important to the ongoing success of this industry. This course provides you with training in the wide range of disciplines and skills you need for the investigation, prevention and control of aquatic animal diseases. You will gain an understanding of the biology, husbandry and environment of farmed aquatic species, as well as specialist expertise in aquatic animal diseases.

The course is built up in three phases:

- **Three Foundation Modules** providing the core skills and knowledge:
  - Principles of Aquaculture
  - Aquaculture Husbandry
  - Aquaculture Systems

- **Three Advanced Modules**
  - Aquaculture Diagnosis Skills
  - Aquaculture Diseases
  - Aquaculture Health Control

Entry Requirements

A minimum of a second class Honours degree or equivalent in Veterinary Medicine.

For more information about the course visit: stir.ac.uk/b

**Cambridge Certificate of Advanced English** (CAE): Grade C or above

**IELTS**: 6.0 with 5.5 minimum in each skill

**Cambridge Certificate of Proficiency in English** (CPE): Grade C or above

**Pearson Test of English (Academic)**: 54 with 51 in each component

**IBT TOEFL**: 80 with no subtest less than 17.