



Institute of Fisheries Management

Careers Guide 2016



The Careers Officer, Mike Lee, has updated this advisory booklet, in January 2016.

This booklet is issued free of charge. Anyone wishing to join the Institute should contact the Membership Secretary (membership@ifm.org.uk) or visit the website www.ifm.org.uk

Anyone seeking information in careers in fisheries can contact Mike Lee, IFM Careers, c/o:-

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Institute of Fisheries Management

The **Institute of Fisheries Management** (IFM) is an international organisation of people sharing a common interest in the modern management of recreational and commercial fisheries.

Created in 1969 in the UK, the IFM is dedicated to the advancement of sustainable fisheries management in all its forms. It is a non-profit making organisation controlled by the membership and governed by an elected council. Members are drawn from professional fisheries managers, regulatory and research bodies, fishing and angling organisations, water companies, fish farms and private individuals whose interests in fisheries are represented at many levels within government and conservation bodies.

The Institute, in partnership with a number of other UK institutes and societies concerned with the environment, is one of the Constituent Bodies of the Society for the Environment. The Society now has a Royal Charter and is empowered to award the qualification of Chartered Environmentalist.

CAREERS IN FISHERIES

This advisory booklet is intended as a guide for persons seeking careers in fisheries. Points of entry into a generalised career structure are indicated for persons with differing levels of professional expertise and experience.

The interest in a fisheries career is widespread in the British Isles. Traditionally there has always been far more people attempting to obtain employment in this field than there are suitable openings, particularly at the lower entry points. The fisheries sector attracts both young people starting out on their career path, but also older persons who are seeking a change of career.

Employing Bodies

The Environment Agency (EA) employs the largest number of persons in freshwater fisheries work in Britain. Other employers include:-

- Natural Resources Wales
- The Angling Trust

- Inshore Fisheries Conservation Associations (IFCA's)
- Privatised Water Companies.
- The Department for Environment, Food and Rural Affairs (Defra).
- The Freshwater Biological Association.
- The Various Rivers Trusts.
- Scottish Office Agriculture, Environment and Fisheries Department.
- Some Salmon District Fisheries Boards.
- The Scottish Environmental Protection Agency (SEPA).
- The Fisheries Division of the Department of Agriculture and Rural Development for Northern Ireland.
- The Loughs Agency.
- The Department of Communications, Marine and Natural Resources in the Republic of Ireland.
- Universities.
- Local authorities.
- Private enterprise including consultants.

Commercial fish farms

The majority of fish farming concerns are small with owners doing much of the work themselves. There are thought to be in excess of 1200 fish farms of one sort or another in the British Isles, with many salmon sea cage farms in Scotland and on the west coast of Ireland.

On the marine side of fisheries the points of entry into a career are as diverse as the freshwater side, entry being dependent on qualifications and experience.

Fish Farming

One attraction of fish farming to many is the idea of working with fish in a rural environment. Whilst this is certainly true it also has, in most cases, certain disadvantages.

- Many fish farms are remote and isolated, with little suitable housing in the vicinity; this will apply especially with the growing number of marine fish farmers.
- The fish need to be tended seven days a week and tasks which are fun on a summer's day can be most unpleasant in a mid-winter gale.
- Large-scale fish farming is a relatively new industry in Great Britain and suffers from many of the ills which beset other new businesses such as poor working conditions or job security.

Fisheries Work at the Environment Agency.

The Environment Agency structure currently does not have its own Fisheries function. Instead fisheries staff are included within Fisheries, Biodiversity and Geomorphology Teams (FBG), Analysis and Reporting Teams (A&R), and Sample and Collection Teams (S&C)

Fisheries staff in the Sample and Collection Teams will lead on fish population surveys, usually with the assistance of the designated officer from the Fisheries Biodiversity and Geomorphology Team and possibly temporary summer students. The role will also see both FBG and A&R staff lead on investigation into fish mortalities. Increasingly both Analysis and Reporting and Sample and Collection staff will not only have to deal with both fisheries work but also carry out surveys of aquatic invertebrates, aquatic and emergent vegetation and other indicators of water quality such as diatoms.

Fisheries Officers in the FBG teams may be organised by river catchments. Some teams have all encompassing FBG officers who deal with Fisheries, Biodiversity and Geomorphology issues, working under the guidance of technical specialist whom are experts in their field. Other teams however retained the formula of having both a fisheries and biodiversity officer on a river catchment(s).

Their responsibilities include giving fisheries management advice, fish rescues and transfers. With much of the habitat improvement works now carried out by the Rivers Trust in England and Wales, FBG officers spend quite a lot of time working with the third sector on partnership project work, delivering environmental improvements. This type of work is often on those waterbodies were monitoring relating to the Water Framework Directive, has highlighted them as been below Good Ecological Status. Some enforcement work previously carried out by these fisheries staff is now carried out by Environment Officers

Increasingly with rise of the third sector within the fisheries field, much of the work carried out by fisheries officers is in relation to various permitting systems such as those relating to fish movements and permissions for using methods other than rod and line for the capture of fish, eel, lamprey and crayfish. The type of work carried out by fisheries officers is increasingly office based, and as such may be less appealing to the type of people that would like a career in fisheries.

Most EA regions also have small teams of bailiffs whose responsibility it is to check anglers' rod licenses and to be on the lookout for illegal fishing activity. This is usually part-time work, and often requires the person to work weekends, when there are the most anglers on the bankside. At the time of writing the Angling Trust the sports National Governing Body is trialing a volunteer bailiff scheme in certain parts of the

country. It may be the case that as these volunteers become fully warranted they will work alongside EA staff.

Fisheries staff are also employed within the Agency Head Office including the Agency Fisheries Laboratory at Brampton, Cambridgeshire. The Environment Agency's fish hatchery at Calverton in Nottinghamshire, and a salmon hatchery in Northumbria, also employ a number of staff.

Increasingly the Environment Agency are drafting in temporary members of staff to assist the regular staff in the delivery of certain tasks such as ecological surveys that have to complete during the summer months. Temporary staff are usually employed via temping agencies.

Numerous full time staff at the Environment Agency got their current positions through following this route, and for those reading this who are still keen to get a 'foot in the door,' with the Environment Agency and Natural Resources Wales it is a good starting point.

Other Fishery Work

Increasingly a large number of people seeking employment in the fisheries field are being engaged by private consultants carrying out Environmental Impact Assessments and the like for clients such as the privatised water PLC's.

They may also work as contractor workers for the Environment Agency, undertaking local investigative work, scale reading and sorting samples of aquatic invertebrates. Generally the work may only be short-term; however it does provide the opportunity to gain valuable experience in such techniques as electro-fishing and netting, which is highly desirable to any future employees.

Bailiffs are also employed by riparian owners to maintain their own fisheries. Whilst the various Rivers Trusts around the UK also employ a number of fishery staff

Generalised Career Structure and Entry Points

An attempt has been made to describe a simple generalised career structure in fisheries which, with only minor modification, is applicable to the staff structures of most employing bodies.

Generally it is advisable to obtain the highest qualifications before seeking permanent employment in the fisheries field. Any opportunity to gain practical experience (see above) should be taken.

Five entry points are distinguished and the usual requirements for entry at each of these are shown below.

Requirement for Entry

- Point 1 A general interest in fisheries. Previous experience of fishing methods, dealing with anglers and police work is useful for Water Bailiff positions. Holding the Certificate of the IFM is an advantage
- Point 2 For a Head Bailiff or Hatchery Manager/Keeper positions experience of working in a post at Point 1 is the major requirement. For Technical Assistants posts GCSE standard is normally required and further qualifications are an advantage.
- Point 3 Experience in a relevant post at Point 2 or a degree in a biological subject coupled with other relevant experience. Postgraduate experience is particularly useful for research posts.
- Point 4 Experience in a relevant post at Point 3 or a higher University degree in a biological subject coupled with a number of years involvement in the fisheries field. The Diploma of the IFM is distinct advantage for entry points 2-4.
- Point 5 A University degree coupled with several years of working in a relevant post at Point 4 is a minimum requirement.

Within each of the five levels there is a wide salary progression.

Many of those keen to enter fisheries have undertaken a biological course, usually to a degree level, others are still at school and others (ex-servicemen in particular) are seeking new careers. Most of the positions for qualified staff go to biologists with specialist post-graduate training or fisheries experience.

Prospective candidates who can reinforce their biological knowledge with other relevant skills will be viewed most favorably by employers. Such skills may include:

- Experience of practical fisheries management such as may be obtained by participation in an Angling Club work party.
- Engineering training and experience, particularly agricultural or marine engineering.
- Livestock husbandry experience, with evidence of inborn understanding of animals, shown by good stockmen.

- A general agricultural training, including such skills as bricklaying, erection of concrete structures or laying concrete, plumbing and electrics, together with a general aptitude to make things work in a farming environment.
- Having a full driving license can mean the difference between getting a job and not, particularly at the lower entry points.
- Good interview skills are important!

Increasingly interviews for qualified positions with the various government agencies are competency based. It is assumed that the candidates being interviewed possess the necessary training and knowledge to do the job. The candidate will generally have to provide examples from previous roles that demonstrates his or hers ability too; communicate, team work, solve problems, prioritise and manage time effectively.

Anyone considering further training prior to entering fisheries can either undertake general training in practical skills as described on the previous page or specialist courses related to fisheries as given below.

Institute of Fisheries Management Correspondence Courses

The Institute organises correspondence courses leading to Certificates in Fisheries Management and in Fish Farming, and to a Diploma in Fisheries Management. These qualifications are recognised by many employers and entitle their holder to professional status within the Institute.

The booklets used in the Certificate and Diploma Courses are also available for purchase separately.

Certificate Course The certificate in Fisheries Management provides knowledge to the level required by persons aspiring to employment as a supervisory water bailiff or fisheries inspector in the water industry, or similar positions in commercially run fisheries. It also provides a sound knowledge base for persons interested in running their own fisheries. The course is organised on a modular basis, with core modules covering freshwater biology, water quality, fishery law and fish culture and husbandry, and additional modules covering enforcement, angling and recreation and fisheries maintenance and improvement.

The certificate takes a minimum of a year to complete, with core module exams in January and specific module exams in June.

Diploma Course

This is at more advanced standard and provides the level of knowledge required by persons employed in positions such as area fisheries managers in the water industry. The course extends over two years, with freshwater biology, fisheries management, fishery law and fisheries administration covered in one year, and fish husbandry, fish disease, water quality and recreation and amenity in the other year.

Short field courses are held each year, and completion of a project as well as passes in the exams is required for the award of the Diploma. This course is credit rated by the Open University Validation Service, and carries points which can be used by successful students to contribute to an Open University degree.

Tutorial systems are in operation for both Certificate and Diploma Courses, with feedback provided to students submitting test papers and essays to course tutors.

Total cost for each Certificate Course, including all materials and exam fees, is £390.

Total cost for the Diploma is £1100, plus the costs of the field courses at approximately £150 each.

For more information on the courses please contact: -

Paul Coulson

Tel: 0845 3887012
Email: paul.coulson@ifm.org.uk

Other Institute Courses

The Institute organises an Annual Conference, covering all aspects of fisheries management and most branches organise day courses and evening talks on topical issues. Details can be obtained from Branch Secretaries, the Institute's quarterly publication 'FISH' or the Institutes Website (www.ifm.org.uk)

Careers in Profile – Neil Lewin – EA Fish Health Guru



First experience of fish?

When I was 9 or 10 we had a family holiday in Devon I think, and there was a lake on site. My dad bought my brother and me a fishing rod each and we learnt how to use a float and a disgorger, and even managed to catch a few roach.

What School did you go to and what subject GCSE/O levels subjects did you choose?

Downham Market High School, Norfolk. The usual GCSEs, Maths, English, Science, but also Media and Business Studies.

What College did you go to and what subjects did you choose?

Downham Market Sixth Form College, Norfolk. Maths, Chemistry and Business Studies (I didn't really know or even think about getting a fisheries related career at this time!)

Did you go to University?

Yes, but didn't attend until I was 21 years old (took me a little longer to figure out what I wanted to do with my life). Sparsholt College, Hampshire. Bachelor's Degree in Aquaculture and Fisheries Management.

What was your first job and how did you get into fisheries?

My very first full time job was as a trainee accountant, I wasn't really sure what I wanted to do after A-levels. After a very frustrating year I realised I wanted to go back to study but wasn't sure in what subject. After much thought, I wanted to get into a career that I was really passionate about, and that was the environment and particular in fish and fisheries.

First boss?

Nigel Hewlett, now Manager of National Fisheries Services.

Best job?

Obviously my current job as part of the Fish Health Team at Brampton. However, I did have a fantastic placement while I was at Sparsholt College. My friend Sim Osborn (fishery manager at Rockbourne Trout Fishery) and I had 8 weeks in Hay-on-Wye with the Game Conservancy Trust. Our role was to monitor chalk streams for trout and bullhead populations, through use of electro-fishing and Habscore techniques.

Job now?

Technical Officer for NFS Brampton, specialising in Fish Health. My work is so variable, from spending time in the laboratory health checking fish to undertaking fish mortality investigations, speaking to customers about fishery management advice or presenting or promoting the work that we do thanks to rod licence funding.

Future?

Honestly, no idea. However, it will most certainly be linked to fish or fisheries somehow. I can guarantee I will not be going back to accountancy!!

Person who helped you/inspired?

Probably my parents, for two reasons. 1. They bought my first fishing rod and would always take my brother and me to local ponds and river. 2. They were extremely supportive when I decided to quit my job and go back to college to study.

Why did you join IFM or similar professional organisation?

To further my learning and understanding of what was going on in the fisheries world. Fish health is a specialist subject, but it's so worthwhile keeping tabs on what else is happening. Also, to have good links and contact with other interested people across the country.

Biggest issue at present -self

Never enough time in the day! For work or fishing!

Biggest issue at present – fisheries

Difficult to say just one. Our team deal with so many fish kills each year; there is clearly a lack of understanding from some people about how to best look after their fish and their fisheries.

Biggest regret/if could change something, what?

If I had known about the many courses in fisheries and environmental studies when I was at high school or sixth form, I probably would've gone sooner! But, saying that I learnt so much in the years before going to college it probably was the best option for me.

Greatest satisfaction.

Being able to get a job in fisheries, that I love doing.

Advice to newbies

Work hard; try your hand at as many different things as possible (especially if given opportunities to do work placements); if you can, volunteer at local angling clubs, fisheries, etc.; get as much experience as you can;

Careers in Profile – Jon Wall

Jon Wall Fisheries Limited was established in 2000 to provide fisheries of all types with high quality services in all aspects of fishery management from fish stocking to weed cutting.



First experience of fish?

Sea fishing with my Grandad down on the Kent coast.

What School did you go to and what subject GCSE/O levels subjects did you choose?

Ratcliffe College, Ratcliffe on the Wreake, Leics,
Maths, English, French, Geography, Chemistry, Biology, Physics

What College did you go to and what subjects did you choose?

Loughborough College, Loughborough, Leics

I did A Level Chemistry, Biology, and Economics. These were chosen as Sparsholt College back in the day required you to study 2 A 'levels and pass one in a science related subject.

I then went on to the Barony College in Dumfriesshire to do the Scotvec National Certificate in Fish Farming.

Did you go to University?

Yes I went to Aberdeen University and did a Btec (hons) in Aquaculture.

What was your first job and how did you get into fisheries?

I worked at Bentham Trout Farm in Lancs. In order to do the Sparsholt course at that time, as well as needing the A levels, you were also required to work in the industry for a year. I managed to secure a paid position as a farm labourer at the trout farm.

First boss?

Keith Easton, Fisheries Scientist, NRA Trentside Offices.

Best job?

Is working for yourself.

Job now?

Managing Director of Jon Wall Fisheries

Future?

Any new business venture possibly non fisheries related.

Person who helped you/inspired?

Keith Easton, Fisheries Scientist, NRA Trentside Offices

Why did you join IFM or similar professional organisation?

To meet similar, likeminded people.

Biggest issue at present -self

Wondering how long I will be able to carry on working in fisheries as the job is very physical.

Biggest issue at present - fisheries

Dealing with the new Environment Agency permitting / consenting systems

Biggest regret/if could change something, what?

Wishing that I could have set up on my own business earlier!

Greatest satisfaction.

Running your own business

Humorous story

Spending the day in Lancaster docklands, rescuing eels and other fish from a disused factory lagoon site that was going to be demolished. Then taking the rescued fish 500 yards away in order to release them back into the sea, however

the tide was out and as I carried them over the mud flat to the sea, I then find that I was stuck in the mud and needed rescuing! I did manage to get the fish back to the sea.

Advice to newbies.

The best advice I can give is to study in something that YOU enjoy doing. There is nothing worse than studying a subject that you do not have any interest in. Making a career in fisheries is exceedingly difficult and it is only through hard work and determination that I managed it. I was told that I was unlikely to get many qualifications but in fisheries although some qualifications are important, it is more about your attitude to the work.

Careers in Profile – Scott West (IFM Member, Fishery Manager and Fisheries Scientist for the West Country Rivers Trust).



First experience of fish?

Feeding the ducks on the river Tone in Somerset as a child and seeing chub steal the bread! I was captivated from there on and a chub was my first fish I ended up catching.

What School did you go to and what subject GCSE/O levels subjects did you choose?

Bishop Fox's in Taunton, Somerset. A mix of GCSE's, the usual suspects. Although capable I was never too interested at school, with the sciences being my only loose interest, it wasn't until I had some great career advice and support that I realised I could do something related to water and fish.

What College did you go to and what subjects did you choose?

Somerset College of Arts & Technology, studying architecture but again this was quickly forgotten about in favour for Sparsholt College and fisheries studies. I'm proud to still be in contact with my Sparsholt peers to this day including Mr IFM careers himself, Mike Lee and of course our own Director of Operations Paul Coulson.

Did you go to University?

Yes, following on from Sparsholt I entered into the second year at Plymouth University, reading fisheries science. Although I wish I had started this degree in the first year looking back having missed a lot of the core maths involved! From there I signed up to a Masters at Plymouth in fish biology but this was put on the back burner in favour of a year surfing around the globe. On return I had diversified somewhat and undertook a post graduate certificate in education (PGCE) at post 16 level.

What was your first job and how did you get into fisheries?

Excluding a mass of work placements and loose fisheries experiences my first real fishy job was working in an aquatic wholesale warehouse, receiving overseas imports and maintaining systems. Fisheries was always the goal but looking back I know how important all the indirectly related roles were in building experience and developing skills. My first direct fisheries role was with the IFM as their first development officer in 2008.

First boss?

First boss I remember as being a real mentor was Dr Steve Dury from Somerset County Council, he gave me an opportunity and helped me develop, and I still bump into him now and again at events.

Best job?

My current position with the Rivers Trust movement, here I get to blend my two passions, fisheries and education, I can't complain but there are always new things to learn and new ways to develop.

Job now?

Fisheries scientist & Education Development Manager for Westcountry Rivers Trust. I manage large scale fisheries projects, develop partnerships, write funding bids, input into more specific science based work and develop our strategic approach to education.

Future?

As long as I can keep my work both fish related with a touch of education, I'm happy. Although being part of the IFM and progressing as a professional is extremely important to me. It's important to understand both the environmental and political landscapes and adapt accordingly to make the most of resources and opportunities, especially in conservation.

Person who helped you/inspired?

There have been a number along the way. It's something that's really helped me by having people who take an interest and support you. If I had to pick one I guess it would be my PGCE teacher training mentor, Geoff Jones, someone who helped me realise I had something to offer. Alongside Geoff, the IFM's own Ian Dolben and David Bunt have both always been a great support.

Why did you join IFM or similar professional organisation?

If you're mad about fish (as most of us are) the IFM is the place to be! It's also such a great movement to mix with like-minded individuals and keep up with what's current in the world of fisheries.

Biggest issue at present -self

Juggling core fisheries science work (I'm more of an applied scientist than an academic) and my passion for education and awareness, thankfully they often can go hand in hand.

Biggest issue at present - fisheries

Wow, tricky one, we live in difficult times, I worry about fisheries losing its identity within organisation as austerity measures take hold in recent years, I worry about the succession of fisheries professionals coming through the ranks, I worry about the general aging populations of angling clubs who don't have younger members coming through and I worry about fish welfare and the image angling can present in some case. Hey, maybe I worry too much?

Biggest regret/if could change something, what?

Not making an effort at school in the early days, I wasted some time before realising what I wanted to do but I think that's part of the journey for us all. I wouldn't change a thing; we live by trial and error!

Greatest satisfaction.

Easy one: Taking young people off either fishing or kick sampling, kids love fish and that makes me smile. We should all be thinking about the future generations, it's them that will be keeping our fisheries sustainable. Plus watching fish use the improvement we make is ultimately rewarding.

Humorous story

The monster fish encounter.... Way back when working in aquatics, we got some Peruvian stone fish in which were aptly named "monster fish" no one had much idea on these fish and at 5am when you're picking an order you mind isn't on any potential dangers.... So I scoop up this little monster fish and using my hand under the net drop it in the bag, bang it injects me with its dorsal and for the next 2 hrs I'm spaced out, nauseous and have a crazy pain in my hand ! A quick call to the ecotoxicology labs in London and the fish is identified, by which time the effects wore off, one trippy little fish and a reason pay attention at 5am when working in a fish warehouse!

Advice to newbies (probably the most important question).

Fisheries can be a small industry / sector, so get involved with the major players through things like the IFM, networking is hugely important and although jobs can be limited its always clear to see those that have gone the extra mile for their career. We are lucky working in fisheries as everyone we meet shares that same passion so it's ultimately worth the effort. Gets some qualifications and seek advice and support from those already in the game. Finally expand your interests, one role might lead into another and a wide skill set is important not just for fisheries work but careers in general.

Courses by other Organisations

Bishop Burton College (East Yorkshire) – Countryside Management (Fisheries Management)

Bishop Burton College, Bishop Burton, Beverley, East Yorkshire, HU17 8QG
01964 553000, fax 01964 551

Bishop Burton is set in rural East Yorkshire, within a short drive of the college there is a plethora of fisheries from the chalk streams of the River Hull headwaters, to numerous large gravel pits and large scale commercial fisheries. This results the student receiving an unrivalled experience in terms of practical visits, including habitat improvements to stock assessments. The college also has a large warm water recirculation unit farming carp and ornamentals.

Level 3 Diploma in Countryside Management

The countryside is a diverse environment, providing a variety of enjoyment opportunities to people as well as important habitats for species to survive. This course aims to meet the needs of students who want to develop a career in countryside or wildlife conservation, or fishery management, both in the UK and globally. The course provides a mixture of practical and theoretical work, providing students with a nationally recognised qualification.

What You Study:-

You will study a range of subjects from the list below:

- Principles of Ecology
- Estate Skills
- Plant Science
- Soil Science
- Land-Based Machinery Operations
- Land Use and Environmental Use
- Greenwood Crafts
- Tourism & Recreation
- Grassland Habitat Management
- Freshwater & Wetland Management
- Woodland Habitat Management
- Water Quality
- Fishery Management
- Business Management
- Coastal Management
- River Fishery Creation & Management

- Organism Identification.

Special Features:-

Students will benefit from industry experience with local organisations; including conducting surveys for Yorkshire Wildlife Trust, helping with coastal habitat management for the RSPB and undertaking practical conservation tasks with the BTCV. The College estate is used as a natural classroom for developing practical estate skills and learning to safely use machinery.

Functional Skills:-

There is an expectation that students will leave the College with a minimum of Level 2 in Maths and English. With this in mind all courses contain a compulsory element of Functional Skills. Students will have the opportunity to upgrade their current level of skill to GCSE A-C.

People who take this course:-

Work as a Countryside Ranger for the local Government
Gain employment with a conservation organisation, such as the National Trust
Conduct practical habitat management tasks for organisations such as the Forestry Commission
Work within the fisheries management industry

There is also the opportunity to progress to Foundation Degree and Honours Degree courses in Countryside Management, Wildlife Conservation and Environmental Science.

Entry Requirements:-

4 GCSEs at grade A*-C (preferably including English and Maths) or a relevant BTEC Level 2/First Diploma or equivalent.

Foundation Degree Countryside Management (FdSc)

This programme provides the necessary skills and theoretical knowledge to work effectively in the field of Countryside Management. The course has strong vocational and practical elements giving the opportunity to gain hands on experience alongside guided learning.

What You Study:-

The Foundation Degree Countryside Management provides knowledge of flora and fauna with identification and ecology modules as well as subjects like Habitat Management and Practical Conservation Skills. Students are required to complete work experience and a research project which can give them the opportunity to specialise in an area of conservation, environmental management

or countryside skills. Students will experience a wide range of subject matter including specialist skills like Geographical Information Systems, wildlife rehabilitation and marine ecosystems.

Special Features:-

The programme includes elements of guided vocational experience allowing students to work alongside Countryside Management experts. A strong emphasis is given to field research methods and practical conservation experience. By completing the range of vocational experience as well as voluntary placements many students go on to work for these organisations after graduation.

People who take this course:-

Typically go on to the Year 3 of the BSc (Hons) in Environmental Conservation, or to gain employment with organisations such as Natural England, DEFRA, County Rights of Way Departments, the Environment Agency, regional Farming and Wildlife services, County Wildlife Trusts, county and district councils, forestry companies, landscape conservation contractors, and environmental consultancies.

Entry Requirements

Successful applicants are normally expected to have a minimum of 120 UCAS points at Advanced Level (60 at A2) or Level 3 Extended Diploma or equivalent. Life experience will also be taken into account when considering applications from mature students. An admissions assessment may be used in certain circumstances

Blackpool and The Fylde College – Marine Biology and Coastal Zone Management (FC71 top-up F710)

Blackpool and The Fylde College, Ashfield Road, Bispham
Blackpool. FY2 0HB

Telephone Course enquiries: 01253 504 343

Email info@blackpool.ac.uk

This Foundation Degree is the first 2 years of a BSc (Hons) awarded by Lancaster University. A final 'top up' year to BSc is available.

Entry Requirements:-

160 UCAS points (excluding functional Skills) which includes at least one of the following - Biology, Chemistry, Physics, Geography or Environmental Science or BTEC /QCF Diploma in a science discipline, 90 Credit Diploma in Applied Science, Animal Management or Access to HE (to include either Human Physiology or Biology).

You will also require GCSEs in Maths and English Language at Grade C or above.

We also welcome applications from those with work experience in lieu of the entry requirements.

About Course:-

Coastal and marine areas require special attention due to the demand put on resources from a wide range of human activities and environmental processes. The FD in Marine Biology and Coastal Zone Management offers you the opportunity to develop skills in marine sciences and environmental management.

Students will develop a range of analytical and scientific skills and practical techniques of enquiry to enable them to apply knowledge, understanding and skills in the workplace.

Experience derived from links with local employers have been used in the design of the programme and so, wherever possible, assessments will include work based examples.

Related Courses:-

[Marine Biology and Coastal Zone Management - Level 6 BSc Hons \(Lancaster University\)](#)

Cornwall College

Aquaculture and Fisheries Science

Killigrew Street, FALMOUTH, Cornwall, TR11 3QS.

Tel:- 01326 310323

Who's this course for?

The cultivation and management of species ranging from cod, coral and carp, seahorse, seabass and salmon, macrophytes, macro and micro-algae is now being recognised as one of the most important elements within the protection and rehabilitation of aquatic ecosystems and now offers a considerable range of exciting career opportunities.

Modular structure

YEAR 1 - Biological Principles - Production Systems - Benthic Biology A - Pelagic Biology A - Boat Handling, Diving & Survey Techniques - Personal & Employability Skills Development;

YEAR 2 - Individual Project - Biology, Husbandry & Cultivation of Finfish - Biology, Husbandry & Cultivation of Shellfish - Aquaculture & Fisheries in Practice - Current Issues in Aquaculture and Fisheries - Business Skills for the Sector Options - Fisheries Science - Aquarium Management Modules are subject to change and availability

Skills and experience gained

Biology, production systems and business principles are the cornerstones of this programme. To rear fish and invertebrates students need to understand how organisms reproduce, how to diagnose and treat disease, and how to appropriately care for species with the correct nutrition and accommodation.

To be employable students need to have practical skills such as surveying techniques, microscopy, and design, construction and maintenance of accommodation.

To be entrepreneurial students need to understand business principles such as policy and legislation, health and safety, project management, and finances.

The contextualisation of each of these elements through industry links and real-world assessments will produce a well-rounded and well-informed graduates ready for work.

After the course

Possible Further Study (subject to availability) - BSc (Hons) Environmental Resource Management - BSc (Hons) Applied Marine Zoology (subject to bridging modules). Possible Careers - Centre for Environment, Fisheries and Aquaculture Science (Cefas) Officer - Hatchery technician - Inshore Fisheries and Conservation Authority (IFCA) Advisor - Environment Agency Officer - Fish research assistant - British Trout Association Researcher - South West Rivers Association Advisor - Conservation/Sustainability Officer - Fish farmer - Aquaculture Operations Manager

Easton and Otley College (an Associate College of UEA)

Charity Lane,
Otley,
Ipswich,
Suffolk,
IP6 9EY,

Tel:- Course enquiries and applications 08000 224556

Email:- info@eastonotley.ac.uk

The College is located 9 miles outside of Ipswich, set in a self-contained campus designed to cater for a wide range of courses in specialist buildings. There is an extensive network of direct bus routes to the campus from across Suffolk and Essex.

The main focus of the college is on vocational courses with qualifications such as First and National Diplomas, as well as Foundation Degrees. Work experience/placements form an integral part of your education and are undertaken in most of our curriculum areas.

These courses are highly practical although includes theory elements for each unit of study which are designed to develop a higher understanding of the practical skills required for the fisheries industry which continues to expand with the ever increasing popularity of angling. Fish farming is rapidly growing industry worldwide.

With real-life industry practical activities and projects ranging from lake management, swim design and construction, fish population surveys and movements. Ecology surveys, water quality analysis and pond construction.

The courses are designed to give students the knowledge required by the fisheries industry within this area. We have many industry relationships which benefit the students providing ideal work placement opportunities and the potential for future careers for the right students.

Level 2 Diploma in Fish Husbandry

Entry Requirements:-

4 GCSEs at Grades D-G or NVQ Level 1 plus 2 GCSEs Grade D-G or Level 1 qualification To Pass Plus including 3 Functional Skills at Entry Level 3 or above.

Candidates are expected to demonstrate a strong interest in fishery subjects and a commitment to coursework.

Course Aims:

This one year course is aimed at school leavers and new entrants into the Fish Husbandry industry. The course is designed to introduced students into the fisheries industry and produce students who have a good knowledge of fish husbandry techniques.

This is an ideal course for people who want an insight into the industry before deciding on a career path.

Course Content:

There are six units of study including:

- Undertake Work Related Experience in the Land-based Industries
- Environmental and Land-based Business
- Introduction to Fish Biology
- Introduction to Fish Health
- Machinery Operation
- Undertake Freshwater Sport Fishery Management
- Participate in Providing Estate Maintenance

What does the course involve?

The course involves a large degree of practical work and some classroom theory. Practicals will take place both onsite in the fisheries unit and offsite at a range of fisheries around East Anglia.

Assessment is by means of written assignments and projects as well as practical observation.

Progression Opportunities:

Level 3 Extended Diploma
Advanced Apprenticeship

Employment with a range of jobs in the fish farming and aquatics industries, as well as commercial sport fisheries.

Level 3 Extended Diploma in Fish Management

Entry Requirements

4 GCSEs at Grades A-C (including a Science at Grade C) or First Diploma (normally Merit overall) plus 2 GCSEs Grades A-C or other Level 2 qualifications.

This is also an ideal course for mature applicants, suitability will be decided on an individual basis.

All candidates are expected to demonstrate a strong interest in fishery subjects and a commitment to coursework.

Course Aims:

This course carries the same UCAS points weighting and is equivalent to studying 3 A Levels. The emphasis of this course is to develop the practical skills and gain the knowledge required for Fisheries management. This is a demanding career and students need to show significant commitment to the course to be successful in this industry.

Work experience and practical skills development are essential components of this course. Students will contribute to the running of the college estate, including running the college fishing lake and assisting in the fish rearing programme.

You will receive an excellent grounding in a wide range of fish management practices and principles suitable for those wishing to gain employment in more technical areas of the sports fisheries, fish farming and ornamental aquatics industries.

Course Content:

There are 18 units of study including:

Undertake and Review Work-related Experience in the Land-based Industries

Understanding Fish Biology and Behaviour

Undertake Estate Skills

Understanding Water Quality

Understanding Fish Health and Welfare

Understanding Stillwater Fishery Creation and Management

Understanding River Fishery Creation and Management

Understanding Coarse, Game and Sea Angling Techniques

Understanding Cyprinid Fish Farming

Understanding Aquatics Management

Machinery Skills

ATV training

What does the course involve?

Practical work will take place onsite in the fisheries unit and out in the field at a range of fisheries around East Anglia. The course also involves relative visits to a range of places including fish farms, fish wholesalers and ornamental retailers. Assessment is by means of written assignments and projects as well as practical observation.

Progression Opportunities:

Other Higher Education courses.

Employment with a range of responsible jobs in the fish farming and ornamental aquatics industries, as well as commercial sport fisheries.

Bridgwater College

Bridgwater College
Cannington Centre for Land Based Studies
Rodway
Cannington
Somerset
TA5 2LS
Tel: 01278 441234
Email address: info@bridgwater.ac.uk
Web address: www.bridgwater.ac.uk

Courses available

Fishery Studies Level 1
Fishery management Level 2
Fishery Management Level 3

Why study these courses?

Level 1 Fishery Studies

The Level 1 Diploma provides a broad based introduction to the skills and knowledge to work in the fisheries industry and has a high practical content. The Level 1 Diploma comprises a number of modules including:

- Sport fisheries and aquatic environment management,
- Fish health and husbandry
- Grounds maintenance skills

Entry requirements

- GCSEs at grades D-G
- An interest in the subject and some experience is preferable
- Successful interview
- Mature students welcome to apply

Fishery management Level 2

The Level 2 Diploma comprises a number of modules (to a total of 60 credits)

- Work Experience
- Land Based Business
- Fish Health and Biology
- Game and coarse angling
- Sport Fishery Management
- Estate Management

What makes this course special?

- Access to a four acre college fishery, aquaculture centre and research tanks
- Regular field trips to local commercial fisheries, fish farms and aquariums
- Qualifying as a level 1 angling coach
- The development of practical and employability skills will be further enhanced via the links with a range of specialist external bodies, such as renowned national fisheries
- BIAZA registered research aquariums, governing bodies such as CEFAS (Centre for Environment, Fisheries and Aquaculture Science), IFM (Institute of Fisheries Management) Environment Agency and the Angling Trust
- Staff are well qualified as teachers with a wealth of sector experience delivering the most up-to-date industry practice
- All students carry out a significant period of work experience as part of the course supporting networking opportunities which often lead to future employment prospects

Entry Requirements

You will need at least five GCSEs in the A* – E range, including English, or an appropriate Level 1 qualification, such as the Level 1 Certificate in Fishery Studies.

How will I be assessed?

Continuous assessment by course work includes:

Written assignments

Practical observations

Seminars and presentations

Assessments are graded as pass, merit or distinction

How long is the course?

One year full time.

Progression

You may go straight into entry level employment working for local angling clubs and commercial fisheries. Students could also progress onto our Level 3 Extended Diploma in Fish Management.

Fishery Management Level 3

The Level 3 Diploma uniquely prepares you with relevant knowledge and skills for a supervisory role within a wide range of aquatic industries. So turn your passion for angling or fish keeping into a career and join the industry that is constantly looking for skilled employees.

What will I study on the course?

The Level 3 Diploma comprises a number of modules, a total of 120 credits and the Subsidiary Diploma 60 credits, the modules taught include:

Work experience across both years

1st Year:

Fish biology and Behaviour
Water Quality
Cyprinid Fish Farming
Understanding Fishery Management
Freshwater Aquarium Systems

2nd Year:

Fish Health and Welfare
Understanding Marine Aquarium Systems
Warm water and Marine Aquaculture
Understanding Coarse, Game and Sea Angling Techniques
Understanding Aquatic Ecosystems
Understanding Freshwater and Wetland Management

Entry Requirements

You will need at least five GCSEs in the A* – C range, including English, Maths and Science, or an appropriate Level 2 qualification, such as the Level 2 diploma in fisheries Management at Merit level.

How will I be assessed?

Continuous assessment by course work includes:

Written assignments
Practical observations
Seminars and presentations
Assessments are graded as pass, merit or distinction

How long is the course?

Depending on the size of the qualification undertaken and its credit value this course programmes can take one or two years.

Please note this is a two year course and there will be additional fees in the second year.

Hadlow College (University of Greenwich)

Hadlow, Tonbridge, Kent, TN11 0AL United Kingdom

Tel: 020 8331 9000

Email address: courseinfo@gre.ac.uk

Website: www.gre.ac.uk

Courses Available

FdSc Aquaculture & Fisheries Management

Aquaculture and Fisheries Management BSc (Hons)

Aquaculture and Fisheries Management BSc (Hons)

Why study these courses

The course is designed to promote students' understanding of the aquaculture industry, including intensive aquaculture production systems, whilst at the same time developing analytical and problem solving skills.

The College boasts an impressive range of resources to support the degree programme, including a modern hatchery for cyprinid and other warm water species (which produces over a million fry per year) plus a College owned fish farm and lakes complex. The River Bourne – which supports native brown trout populations - runs through the Hadlow College campus and provided learning opportunities.

Students benefit from practical work experience and use this unique resource to improve river habitats and survey fish populations. In addition, students are multi-skilled and ready for industry by handling our extensive range of fish surveying equipment including electric fishing equipment, seine nets and fish traps. Students also undertake a compulsory industrial placement, which can be either in the UK or abroad.

The BSc (Hons) Aquaculture and Fisheries Management degree programme will develop your knowledge and understanding of fisheries management, current issues and best practice in the industry, and the associated underpinning biological, technical and welfare concepts and meet the regional (and wider) industry's needs for graduates with the required knowledge, understanding, practical capability in key areas of the industry:

The BSc (Hons) Aquaculture and Fisheries Management builds on the skills learnt during the FdSc Fisheries Management, or similar, programme. Designed to promote students' understanding of the aquaculture industry, including intensive aquaculture production systems, whilst at the same time developing analytical and problem solving skills,

Sparsholt College Hampshire

Sparsholt
Winchester
Hampshire
SO21 2NF
United Kingdom

Tel: 01962 776441

Fax: 01962 776587

Email address: courses@sparsholt.ac.uk

Website: <http://www.sparsholt.ac.uk>

Courses Available

Aquaculture and Fishery Management BSc (Hons)
Sport Fisheries & Aquaculture (HE Level 2)

Aquaculture and Fishery Management BSc (Hons)

This course is targeted towards students who wish pursue a career in aquaculture or sport fisheries and wish to study a programme to honours degree level. These industries and their support services require technologists and managers with the necessary applied scientific knowledge, managerial skills and ability for independent thought and analysis. Standard entry requires 240-280 UCAS points.

This could include a BTEC National or Extended Diploma with overall performance at DMM, a BTEC National Certificate or Level 3 Diploma at DD or at least two A Level passes at Grade C or above; or equivalent academic qualifications; or appropriate professional qualifications.

Evidence of studying Science is required. Applications from mature students are welcomed and offers may be based on experience and employment history.

Experience is desirable but not essential. However the ability to demonstrate an interest in aquaculture and sport fisheries is required.

Modular structure

Year 1: Fishery Science; Water Quality; Industry Skills; Fishery Management; Salmonid Farming; Academic Skills including IT; Work Placement 1.

Year 2: Fish Health and Nutrition; Marine Fish Farming; Fishery Appraisal; Financial Studies; Aquaculture Systems; Tropical Aquaculture; Work Placement 2.

Year 3: Applied Fishery Science; Developments in Fish Production and Processing; Enterprise and Management; Environmental Management; Dissertation and Data Analysis; Applied Fishery Science; Work Placement 3.

Skills and experience gained

This three-year course combines a balance of scientific, managerial and practical skills that are developed from an introductory level in Year One to independent research and application in Year Three.

The practical element of the course is underpinned through the scientific application of the discipline.

During each year of the course there is a 4 week work placement, providing important industry experience in your chosen field. Recent placements have included prestigious local game fisheries, specimen carp & catfish fisheries in England, France and Spain, Scottish salmon farms, cyprinid and ornamental fish farms, environmental consultants, the London Aquarium, a bait manufacturer and government fishery laboratories to name but a few!.

After the course

Graduates regularly progress to higher-level study, particularly MSc and PhD programmes, whilst others gain employment with a range of industry employers. A large proportion of graduates gain immediate fish related employment, often it is directly from their work placement.

Level 3 Extended Diploma in Fish Management

Entry Requirements

4 GCSEs at Grades A-C (including a Science at Grade C) or First Diploma (normally Merit overall) plus 2 GCSEs Grades A-C or other Level 2 qualifications.

This is also an ideal course for mature applicants; suitability will be decided on an individual basis.

All candidates are expected to demonstrate a strong interest in fishery subjects and a commitment to coursework.

Course Aims:

This course carries the same UCAS points weighting and is equivalent to studying 3 A Levels. The emphasis of this course is to develop the practical skills and gain the knowledge required for Fisheries management. This is a demanding career and students need to show significant commitment to the course to be successful in this industry.

Work experience and practical skills development are essential components of this course. Students will contribute to the running of the college estate, including running the college fishing lake and assisting in the fish rearing programme.

You will receive an excellent grounding in a wide range of fish management practices and principles suitable for those wishing to gain employment in more technical areas of the sports fisheries, fish farming and ornamental aquatics industries.

Sport Fisheries & Aquaculture (HE Level 2)

This course is targeted towards students who wish to pursue a career connected with aquaculture and sport fisheries, underpinned by a firm science foundation.

It combines a mix of scientific, managerial and practical skills designed to meet the employment needs of the fishery management and aquaculture industries.

Standard entry requires 140-180 UCAS points e.g. a relevant National or Extended Diploma at MMP or a BTEC National Certificate or Level 3 Diploma at DM or an NVQ Level 3; or at least one A Level pass at Grade C or above. Applications from mature students are welcomed and offers may be based on experience and employment history. Experience is desirable but not essential. However the ability to demonstrate an interest in aquaculture and sport fisheries is required.

Modular structure

Year 1: Fishery Science; Water Quality; Industry Skills; Fishery Management; Salmonid Farming; Academic Skills including IT; Work Placement 1.

Year 2: Fish Health and Nutrition; Marine Fish Farming; Fishery Appraisal; Financial Studies; Applied Industrial Research; Tropical Aquaculture; Work Placement 2.

Skills and experience gained

This course combines skills that are developed from an introductory level in Year One to applied technology and research in Year Two. Subjects studied include:

water quality; fish anatomy and physiology; fishery management and ecology; aquaculture; fish health, fish nutrition and industrial research.

There is an emphasis on vocational skills with numerous visits to fish farms, fisheries and research centres as well as the involvement of students with fish farmers, fishery managers and the support industries. The practical element of the course is underpinned through the scientific application of the discipline. During each year of the course there is a 4 week work placement, providing important industry experience in your chosen field.

After the course

The majority of our Foundation Degree students choose to progress to the 3rd year of an appropriate top-up degree. Alternatively those who progressed to employment have recently gained positions as managers of sport fisheries, fish farmers and Environment Agency fishery officers.

Barony College - Part of Scotland's Rural College (SRU)

The SRU is?

Four respected partners – Barony, Elmwood and Oatridge Colleges and SAC – have merged to become Scotland's Rural College – SRUC. We exist to deliver comprehensive skills, education and business support for Scotland's land-based industries, founded on world class and sector-leading research, education and consultancy.

Barony Education Office
SRUC Barony Campus, Parkgate, Dumfries DG1 3NE
Telephone: [01387 860251](tel:01387860251)
E-mail: barony@sruc.ac.uk

Aquaculture and sports fisheries courses are run from our Barony Campus and offers some of the best practical facilities available, including a mile of the river Ae complemented for sport fishing, and the courses are highly regarded by employers.

The campus has a commercial trout farm with the capacity to produce up to 50 tonnes of fish per annum, and the hatchery facilities enable our students and trainees to be involved in ova production, hatching and early rearing, as well as on-growing.

A college-based full-time course is an ideal preparation for many when preparing for entry to the aquaculture industry, including the leisure-related sectors and sport fisheries management.

Employment opportunities range from small-scale private commercial fisheries through to scientific or management posts within government organisations.

Fish Health and Nutrition NPA - This is a work-based training programme and qualification, and although no previous experience is required, you need to be in employment on a fish farm or be able to enter a managed fish farm on work experience.

The main areas covered by the course are fish feeding, fish health and fish
This is a work-based learning programme and qualification, and although no previous experience is required, you need to be in employment on a fish farm or be able to enter a managed fish farm on work experience.

Progression Opportunities:-

Successful completion may lead to progression to SVQ Level 2 Aquaculture: Fin Fish

Fish Husbandry NPA - This is a work-based training programme and qualification, and although no previous experience is required, you need to be in employment on a fish farm or be able to enter a managed fish farm on work experience.

A range of topics will be covered during the NPF Fish Husbandry including fish husbandry, fish handling and water.

This is a word-based learning programme and qualification, and although no previous experience is required, you need to be in employment on a fish farm or be able to enter a managed fish farm on work experience.

Progression:- This NPA can be undertaken as standalone course or alternatively, successful completion may lead to progression to SVQ level 2 Aquaculture: Fin Fish

Aquaculture Fin Fish SVQ2 - Designed to provide those interested in entering the aquaculture sector with practical training and appropriate knowledge.

This is a work-based training programme and, although no previous experience is required, you do need to be in employment on a fish farm.

The main areas covered by the course are:- Fish Husbandry, Fish Health, Fish handling and Fish Feeding.

Learning will take place while you are employed on a fish farm, an assessor will visit throughout the year to assess your progress.

Progression Opportunities:-

On successful completion of the SVQ 2 you may be able to progress to the SVQ 3.

Aquaculture Fin Fish SVQ3 – No details of course as yet

Brooksby Melton College,

Melton Mowbray, Leicestershire LE14 2LJ.

Course enquiries: [+44 1664 855444](tel:+441664855444)

E-mail courseenquiries@brooksbymelton.ac.uk; www.brooksbymelton.ac.uk

**Courses available:- Level 3 Extended Countryside Management
EDEXCEL BTEC Level 3 Extended Diploma in Countryside Management**

This course covers a range of countryside skills, looking at conservation, wildlife and habitat management.

You can pursue a career in roles such as – park ranger, warden or reserve officer. This course also allows you to progress onto degree-level courses in Horticulture and Conservation Management.

Entry requirements:- 5 GCSEs Grade C or above including English, Maths and Science, or Level 2 Countryside Management at Merit grade.

Countryside Management is for those looking to work in practical land management and habitat conservation. It is also an area which will appeal to those wishing to enter a career in ecology.

Inverness College (University of the Highlands and Islands)

3 Longman Road, Longman South, Inverness IV1 1SA

Aquaculture Modern Apprenticeship SVQ2 and SVQ3

Applications to be made by employers through the Training Contracts Team at Inverness College UHI.

The Team can also be contacted for further course information on 01463 273401.

These courses are aimed at those who work in the fish farming industry, carrying out the daily husbandry duties on either a freshwater or marine site.

The SVQ 2 Aquaculture

The SVQ 2 Aquaculture is a recognised qualification which has been designed by the industry. It can be useful for progression within the student's place of work and is particularly useful for those without any formal qualifications in aquaculture. It offers the candidate the opportunity to demonstrate the skills they have learnt, and also fill any gaps in their knowledge and understanding of the fish farm industry.

To obtain the full qualification SVQ2 you must achieve 10 units: 7 mandatory and 3 optional.

Mandatory Units

- Prepare holding units to receive fish
- Prepare and gather live fish
- Carry out routine maintenance and repairs on aquaculture facilities
- Monitor the aquatic production environment
- Maintain environmental conditions within holding
- Work safely in an aquatic environment
- Prepare to and feed fish

Option Units

- Stock fish into holding units
- Grade live fish
- Prepare to and harvest fish
- Collect information on fish growth and development
- Prepare to and treat health problems in fin fish
- Spawn fish and fertilise fish eggs
- Establish and maintain green egg incubation
- Prepare and maintain fish eggs in a hatchery
- Care for juvenile fish
- Prepare for the transport of live fish
- Transport live fish
- Prepare and operate small craft

The SVQ 3 Aquaculture

The SVQ 3 Aquaculture is a recognised qualification which has been designed by the industry. This course is aimed at managers, assistant managers, team leaders and people in a supervisory position in fish farms. Candidates who have successfully completed an SVQ Level 2 in aquaculture can also progress onto this course.

The course aim is to assess the skills you require in your workplace to handle the many technical and managerial aspects of working in the Aquaculture Industry today. It gives candidates an opportunity to gain a nationally accredited award in SVQ Level 3 Aquaculture.

To obtain the full qualification you must achieve 10 units - 7 mandatory units and 3 optional units.

Mandatory units

- Control the Aquatic Production Environment
- Produce Farmed Fish for Sale or Transfer
- Provide a Safe, Healthy and Secure Working Environment
- Implement Fin Fish Feeding Regimes.

Option units

- Transport Live Fish
- Control the Implementation of Fish
- Control Fish Hatchery Operations
- Maintain Aquaculture Recirculation Systems
- Prepare and Operate Small Craft

Further Option units

- Allocate and Check Work in Your Team
- Take Personal Emergency Action on Board a Vessel
- Lift, Transfer and Position Loads
- Take Effective Decisions
- Recruit, Select and Keep Colleagues
- Manage a Budget
- Allocate and Monitor the Progress and Quality of Work in Your Area of Responsibility
- Improve Your Business Skills

Moulton College, West Street, Moulton, Northampton, NN3 1RR

01604 491131, fax 01604 491127

E-mail: enquiries@moulton.ac.uk ; www.moulton.ac.uk

Set in rural Northamptonshire this established college is currently offering several further and higher education courses with fisheries related units. The recently completed Countryside Management Centre is home to ultra-modern resources (including three specialist workshops) for countryside management, game rearing and fish rearing.

The fish-rearing workshop contains eight industry-standard tanks in which carp are reared to stock the college lake. The college's estate takes in a tributary of the River Nene, several ponds, and a lake. The extensive estate is used for developing a variety of estate and habitat management skills and there are extensive links with a number of local estates and organisations providing access to different types of habitat management projects.

Further Education:-

Diploma Level 2 Countryside and Environmental Management

A one year fulltime course includes practical and theory study in areas such as estate maintenance, ecology, game rearing and fish management.

Entry Requirements

GCSEs grades D-G or Level 1 Diploma or Level 1 NVQ Work Based Diploma (for Level 2 courses)

Extended Diploma Level 3 Countryside Management

This two year course includes practical and theory study in areas such as ecology, woodland management, freshwater and wetland management and estate skills.

Entry Requirements

4 GCSEs grades A*-C or Level 2 Diploma or Level 2 NVQ Work Based Diploma (for Level 3 courses)

Higher Education:-

- **FdSc Countryside and Wildlife Management**
- **FdSc Countryside and Wildlife Management (Part Time)**
- **BSc(Hons) Land Management (Top Up)**
- **BSc(Hons) Land Management (Top Up) (Part Time)**
- **BSc(Hons) Wildlife Conservation (Part Time)**

Courses Overview:-

The first stage provides an introduction to nature conservation and wildlife management, with modules relating to wildlife identification, habitat management, and practical and traditional conservation skills.

At stage two, you will be able to select a number of options in which to specialise including advanced wildlife management and survey, habitat ecology and management, environmental education, forestry and woodland management and waste management.

You will complete an industrial placement as part of your foundation degree
Careers

Recent graduates have successfully furthered their careers with the Environment Agency, the Wildlife Trusts, rights of way and visitor management in local authorities, environmental education, as rural land advisors and within ecological consultancies.

Reaseheath College, Reaseheath, Nantwich, Cheshire, CW5 6DF

01270 625131, fax 01270 625665

E-mail reception@reaseheath.ac.uk , www.reaseheath.ac.uk

Reaseheath College in rural Cheshire is currently offers the following courses, with fishery management components:-

Level 2 Diploma Countryside and Environment

This course will give you a broad base of knowledge and skills about management of the countryside and environmental conservation.

This one year course is a foundation to a career working in the field of environmental conservation. If you are looking to progress to a more advanced course, the Level 2 Diploma is designed to introduce you to and prepare you for the range of Level 3 courses available.

Level 3 Diplomas in Fish Management

You will study all aspects of fish and fishery management on this course.

Working on the Reaseheath site and a wide variety of local fisheries and estates, you will have the opportunity to develop practical skills and gain a broad base of knowledge.

This course will be the foundation for your future career in fisheries.

A two year programme that will provide opportunities for developing new skills and knowledge that are essential in a wide variety of fishery management roles. Close contact with the industry will ensure that you are up-to-date with current trends and practice.

What will I study?

Fish biology and behaviour
Estate skills
Fish health and welfare
Still water fishery creation and management
Cyprinid fish farming
Mechanisation in fish husbandry
Water quality
Water pollution control and management
Coarse game and sea angling techniques
Freshwater and wetland management
Fishery management
Fish population surveys and management

Foundation Degree Countryside Conservation and Recreation Management

This part-time course provides students with the skills and knowledge needed for a career in countryside management. It is a popular career change choice as well as for those wishing to progress to a higher level in their countryside role.

Students will study ecology, environmental education and interpretation, recreation and visitor management and a wide range of habitat management topics – resulting in a broad and balanced understanding of the countryside management industry.

Attendance is at college one evening per week, with this session being classroom-based, allowing you to cover the theoretical aspects of your course in depth.

Compulsory practical sessions and field trips take place over 8-10 Saturdays throughout the year at conservation sites in Cheshire and the North West.

Work experience through volunteering or your current role is also expected to be carried out during your first year.

Year 1

Academic and Professional Development
Habitat Management
Introduction to Ecology
Plant and Animal Identification
Work-based Learning 1 (Countryside)

Year 2

Ecological Surveys
Introduction to Agriculture

Practical Skills
Woodland Management
Work-based Project 1 (Countryside)

Year 3
Environmental Education and Interpretation
Environmental Issues in the Countryside
Field Sports Management
Integrated Countryside Management
Recreation and Visitor Management
Work-based Project 2 (Countryside)

Rodbaston College,

Rodbaston, Penkridge, Stafford, ST19 5PH
01785 712209, fax 01785 715701
E-mail: rodenquiries@rodbaston.ac.uk; www.rodbaston.com

Countryside Management Level 3

This is an ideal course for you if you are interested in wildlife conservation, fish, forestry and game management. It will prepare you for practical and managerial roles within the countryside sector helping to protect the UK's natural heritage.

This course will also suit you if you have worked in the Countryside industry for a number of years and wish to gain a recognised qualification.

A typical working week will comprise of a variety of classroom sessions and a number of outdoor practical classes where advanced countryside management skills can be developed.

You will learn a huge range of skills including heathland, woodland and grassland management, plant and soil science, tourism and recreation management and in addition you will be able to choose options in conservation, game management or fish management.

Sea Fish Industry Authority, Seafish Training & Standards Division,
Seafish House, St. Andrews Dock, Hull HU3 4QE,
01482 327837, fax 01482 223310
E-mail training@seafish.co.uk, www.seafish.org

Seafish is the Government-appointed National Training Organisation for the fishing, merchandising and processing, retailing and frying sectors of the sea fish industry.

Seagoing training

Co-ordinate training throughout the UK for commercial fishermen. Seafish, provides high quality training opportunities for fishermen is a top priority. Collaborate with the Maritime & Coastguard Agency to develop safety training courses for fishermen.

Seafish develop training materials and online learning resources.

All commercial fishermen must complete mandatory basic safety training and further voluntary training is available to those who wish to enhance their skills and knowledge as well as improve their employability. Courses are delivered by our network of Approved Training Providers.

E-learning to complement our range of taught and on-the-job training courses, we have also developed an online learning resource. Seafish Online Training gives learners the chance to study theory-based courses at their own convenience.

These courses are completely free and provide an ideal way of topping up essential knowledge, preparing for attending a taught course or preparing for an assessment.

Some of the most popular courses available online as e-learning courses include:

- Under 16.5m Skipper's Certificate
- Fishermen's safety training
- Fishermen's refresher training

For more information about e-learning please email us or call us on 01472 252302.

On-shore training

There are plenty of opportunities for training that leads towards better jobs and careers in the seafood industry across the UK.

From health and safety certificates to degrees and vocational qualifications, participating in learning and training can give you the knowledge and experience to progress to bigger and better roles in the seafood industry.

Keeping up high standards of training in the seafood industry is important for a number of reasons that benefits all of us. Training ensures that employees are safe at work, that consumers purchase higher-quality products, and that employers employ skilled, competent and motivated workforces.

Seafish, provides training opportunities for everybody in the industry is one of their top priorities. Over the past few years, we have achieved much for our industry:

Level 2 fish and shellfish vocational qualifications and apprenticeships for operatives and team leaders in processing, fish-mongering and related sectors;

Level 3 professional qualifications and apprenticeships in processing, fish-mongering, fish frying and other onshore sectors;

Level 3 mini awards from bivalve purification through to fish frying;

Online learning materials, new training DVDs, workbooks, programmes and other support materials;

With our Partners in the Seafood Training Academy, we are developing a network of trainers and training providers able to support employers throughout the UK who want to deliver longer term benefits to their businesses through apprenticeship and vocational qualifications programmes.

There's never been a better time to embark in a career in the fish and shellfish industry.

Scottish Fisheries Co-ordination Centre (SFCC)

If you have any questions or require further information about The SFCC, please contact:

Sean Dugan
Marine Scotland Science Freshwater Laboratory
Faskally
By Pitlochry
Perthshire
PH16 5LB

Tel: 01224 294408

Scottish Fisheries Co-ordination Centre (SFCC)

The SFCC is an association of Fisheries Trusts, Scottish Government, SEPA, SNH and others interested in evidence based management of freshwater fish and fisheries in Scotland.

SFCC Aims:

1. Develop sampling protocols
2. Co-ordinate data storage
3. Facilitate data sharing
4. Provide training courses
5. Promote discussion
6. Facilitate cross-Scotland projects

The SFCC currently delivers training courses in:

- Electrofishing
- Habitat surveying
- Scale reading
- GIS
- Database Design
- Statistics
- Fish Autopsy
- Smolt/fish counting

Inverness College and Barony College, in collaboration with SFCC, provide introductory level and team leader electrofishing qualifications, accredited at SVQ level 2 and 3.

Shuttleworth College,

Old Warden Park Nr. Biggleswade Bedfordshire SG18 9EA

Tel:- 01767 626222

Fax:- 01767 626235

E-Mail: enquiries@shuttleworth.ac.uk ;

Website:- www.shuttleworth.ac.uk

Set within the stunning location of Old Warden Park, near Biggleswade the College offers a wide variety of full and part time courses making full use of the resources available which include parkland, farm land, lakes, reservoir, woodland and fish hatchery.

Shuttleworth is currently offering **Fisheries Level 3**

This course has been developed to focus on the education and training of people who want to be involved in the Fisheries industry, it will ensure that you develop the foundation skills and vocational knowledge needed for employment in land-based industries.

The Extended Diploma in Fish Management is designed to provide a springboard for learners to progress onto a University degree, or to find work in the fisheries industry, which consists of such sectors as fish production, sport fishing, recreational fisheries management, and aquatic and ornamental fisheries management. The course also provides training for people who are interested in allied industries, such as equipment sales, fish nutrition and breeding, coaching and conservation.

Entry requirements

To begin this course you will need at least four GCSEs Grades A*-C (including English, Maths and Science), or an equivalent Level 2 qualification supported by good references and a minimum of Functional Skills at Level 1 in English and Maths.

Course content

At the end of your first year you will have achieved the Level 3 BTEC 90-credit Diploma, or the BTEC 60-credit Subsidiary Diploma in Fish Management. At the end of your second year you will have achieved the Level 3 BTEC 180-credit Extended Diploma in Fish Management.

During the first year of your course you will cover at least nine of the following units:

- Investigative project in the land-based sector
- Work Experience in Land-based Industries
- Fish Biology and Behaviour
- Understanding Water Quality
- Business Management in the Land-based Sector
- Principles of Land-based Machinery
- Estate Skills
- Fish Health and Welfare
- Aquatic Plant Biology and Husbandry
- Freshwater Aquarium Systems
- Marine Aquarium Systems
- Ornamental Pool Design
- Installation and Management
- Warm-water and Marine Aquaculture

- Stillwater Fisheries Creation and Management
- Aquatic Ecosystems
- Coarse, Game and Sea Angling Techniques
- Cyprinid Fish Farming
- Freshwater and Wetland Management
- Ornamental Fish and Aquatic Invertebrate Biology
- Tree Felling and Chainsaw Use
- Fishery Management
- Freshwater Fish Population Survey and Management
- Aquaculture Systems.

In the second year you will study a further nine units from the units displayed above in order to achieve the Extended Diploma in Fish Management. During your first year you will be required to complete a work experience placement; you will have the opportunity to complete a block work experience in the second year. You will also be given the opportunity to complete additional qualifications as part of the course. Additional qualifications can include survey techniques, pesticide application, employability skills and angling coaching.

Trips are organised in the UK and abroad, and you will have the opportunity to participate in and support angling competitions. The college also works closely with the local community and employers to give learners the experience of the working environment

University of Aberdeen

BSc (Hons) Conservation Biology encompasses the disciplines of Marine Biology, Zoology and Plant and Soil Science, Forestry and Geography.

University of Aberdeen
University Office
King's College
Aberdeen
AB24 3FX

Student Recruitment & Admissions Service

Tel:- +44 (0) 1224 273504

Fax:- +44 (0) 1224 272034

Email address:- sras@abdn.ac.uk

Website:- www.abdn.ac.uk/sras

First Year

All students take eight courses including Ecology and Environmental Science, Organismal Biology and a tutorial course in Biological Sciences.

This leaves a choice of five further courses which contribute to enhanced study; options include subjects such as Global Worlds, Global Challenges, The Natural Environment through Geological

Second Year

All students study a skills course in Life Sciences. There is a dedicated Conservation Biology course in second year, as well as compulsory courses on Ecology, Genes and Evolution and a field course in Zoology. Popular options include courses in Plant and Soil Science, Animal Physiology, Ocean Biology and Geography.

Third Year (Junior Honours)

All students take a Statistics course. Other core elements of the third year include Animal Population Ecology, Animal Evolution and Biodiversity, Plant Biogeography, Ecosystem Processes, Conservation in Practice and Sustainable Resource Management. A wide range of further courses can be taken within the School of Biological Sciences.

Fourth Year (Senior Honours)

A semi-independent project carried out in conjunction with conservation.

Aberystwyth University
Marine & Freshwater Biology (C164)

Penglais Campus, Aberystwyth, Ceredigion SY23 3FL

Undergraduate Admissions Tel:- 01970 622021

Email:- ug-admissions@aber.ac.uk

Aberystwyth University provides an exceptional student experience. Within an intimate community you will find a range of social, cultural and learning facilities which are the envy of many cities. Everything is convenient so that there are no commuting costs or time-wasting. Every aspect of your life is easily accessible. The living costs are amongst the lowest of any British university. Amongst the library resources is the National Library of Wales.

This course is delivered by our Institute of Biological, Environmental and Rural Sciences (IBERS), which is an internationally-recognised centre of excellence, and is one of the largest and most well-resourced departments of its kind. The facilities for Marine and Freshwater Biology students, include aquaria for marine and freshwater organisms, and cold-water and tropical species.

On graduating with your BSc Marine and Freshwater Biology Degree you will be qualified for career-paths specifically related to the discipline. In addition, your degree will have taught you a broad range of skills such as observation, research, analysis and reflection which are demanded by employers in every field.

Marine and Freshwater Biology students at Aberystwyth benefit from the unique biodiversity in west Wales. An extensive array of coastlines, estuaries, woodlands, and hills provides habitats for the exceptional wildlife. Opportunity to undertake fieldwork in the local vicinity and as part of residential field courses away from Aberystwyth, exploring marine and freshwater environments in other parts of Britain or overseas.

Modular structure

The course is delivered through a balanced programme of lectures, workshops, tutorials, fieldwork and practicals. Some aspects of the course will rely on student-centered e-learning, supported by computer workshops.

**Bangor University
BSc (Hons) Marine Biology**

Bangor University
Bangor
Gwynedd
LL57 2DG
Tel:- 01248 383717
Fax:- 01248 370451
Email address:- admissions@bangor.ac.uk
Website:- <http://www.bangor.ac.uk>

We are increasingly aware of the value of marine organisms for food, medicine and other products as well as for their role in influencing the climate. Marine Biology is the study of organisms that occupy 95% of the biosphere of our planet.

This very popular course allows you to study the fundamental aspects of the biology of marine life as well as more specialised aspects such as aquaculture, fisheries and marine biotechnology.

The course typically involves up to 30 hours per week of lectures, practical's (laboratory and fieldwork), private study, tutorials and project work. Many modules include day field trips

Year 1 Compulsory modules: Ecology and Evolution. Introducing the Oceans
Introductory Research Skills Marine Biology. Organismal Diversity.

Year 2 you will study all of the compulsory modules and choose one optional.

Compulsory modules: Evolution and Genetics Marine Ecology, Marine Biology
Marine Physiology and Behaviour.

Optional modules: Estuary and Shelf Sea Processes Tides, Waves and
Sampling

Year 3 Compulsory modules. You will study all of the compulsory modules
and choose one optional.

Compulsory modules: Dissertation Extreme Marine Habitats Intertidal Field
Project Marine Conservation and Exploitation Marine Processes and Systems
Marine Vertebrates

Optional modules: Larval Ecology Overseas Field Course

You will carry out a research dissertation in which you do an independent
study on topics related to any aspect of Marine Biology.

University of Cumbria

BSc (Hons) Marine and Freshwater Conservation with Industrial Placement

BSc (Hons) Marine and Freshwater Conservation

BSc (Hons) Marine and Freshwater Conservation (with Foundation Year)

Fusehill Street
Carlisle
Cumbria
CA1 2HH

Contact

Tel:- 0845 606 1144

Fax:- 01524 384567

Website:- <http://www.cumbria.ac.uk>

The course is designed as a source for national expertise in aquatic conservation, partly in response to the need for effective management and mitigation of conservation stemming from increased development of wet renewable energy sources (e.g. hydroelectric, tidal, and wave energy) in the UK and elsewhere.

The new BSc (Hons) in Marine and Freshwater Conservation will guide students through the wonderful range of marine and freshwater environments found on our planet, from upland springs and freshwater lakes, through rivers to the sea and down under the ocean to deep water trenches (and everything in between!). We will study the physical and chemical processes which control the behaviour and characteristics of aquatic habitats, as well as the fascinating plants and animals which live within them.

For more details regarding the subjects taught each year and the other learning experiences on offer please refer to:-

<http://www.cumbria.ac.uk/Public/AQS/Documents/ProgSpec/ScienceEngineering/BScMarineAndFreshwaterConservationWithIFY.pdf>

University of East Anglia

Norwich Research Park, Norwich, Norfolk, NR4 7TJ, UK.

Switchboard: +44 (0) 1603 456161

BSc Ecology

Ecology is the study of how organisms behave, evolve, and interact with their physical and biological environments. Specialist teaching by the staff of our two affiliated Institutes, the Centre for Environment, Fisheries and Aquaculture Science and the British Trust for Ornithology, amongst other local organisations. This opportunity allows you to study population biology, conservation and related topics. Furthermore UEA is based in a region with a diverse range of habitats, which provides great opportunities for field-based final year projects.

This is a three year course, which introduces you to key concepts of ecology through seminars and practical work in the first year. Throughout your second and final years you begin to specialise and tailor your degree programme to suit your interests thanks to the increasingly varied module options. You will also complete a substantial independent research project in the final year.

Edinburgh Napier University

Craiglockhart Campus, Glenlockhart Road, Edinburgh EH14 1DJ

Tel:- 0333 900 6040

Email Enquires Follow:- <http://www.napier.ac.uk/contact-us/Pages/enquire-online.aspx>

Edinburgh Napier University is one of the largest higher education institutions in Scotland with over 17,000 students from 109 countries.

Marine and Freshwater Biology BSc (Hons) Full time

Water is of huge importance to biological science; it covers the majority of our earth and many organisms can be found existing in it. It is also pivotal in climate change and global warming, making this course very relevant to a career in conservation. If you're interested in global issues, conservation, and the impact of pollution, then this course teaches you how to monitor and protect marine and freshwater species.

The aim of this programme is to give a solid theoretical and practical training in Marine and Freshwater Biology which will equip you to compete strongly in the job market.

As well as gaining a broad understanding of biological sciences, you'll also study organisms in their natural environment. You will also study the non-living environment, including climate, weather, water and sediment properties and pollution. You'll cover the ecology of marine and freshwater systems, as well as aspects of management, including pollution control and fisheries science.

There is a large practical element to this course including a residential field course to the island of Cumbrae on the west coast of Scotland.

The skills you gain in this course will prepare you for work in a number of areas:-

- Aquatic environmental management
- Pollution management
- Fisheries
- Aquaculture
- Habitat and species management
- Conservation

The course is studied full-time over four years.

Year 1

Life on Earth, Introductory Physiology, Molecules and Cells, two practical modules plus one optional module from:

Plant Science

Concepts in Forensic Biology
Co-curricular modules in a variety of subjects

Year 2

Microbiology, Biochemistry, Physiology and the Environment, Animal Behaviour, and a practical module. Plus one optional module from:
Biology of Disease
Valuing the Earth
Microbes and Man
Co-curricular modules in a variety of subjects

Year 3

Scientific Communication - Dissertation and Statistics, Freshwater Biology, Population and Community Ecology, Marine Biology, Environmental Toxicology and Environmental Microbiology

Year 4

Fisheries Biology, Advances in Aquatic Sciences, Environmental Management, plus an honours project
Career prospects

University of Essex

BSc (Hons) Marine Biology (3 years)/ including year abroad (4 years) MmarBiol Marine Biology (with integrated Masters) (4 years)

Wivenhoe Park
Colchester
Essex
CO4 3SQ
United Kingdom
Tel:- 01206 873666
Fax:- 01206 872808
Email address:- admit@essex.ac.uk
Website:- <http://www.essex.ac.uk>

On our marine biology course you dive into a fascinatingly complex world of aquatic life. The vast majority of life on earth is found under the sea. You gain an expert knowledge of marine biology through study of essential core modules and the flexibility to specialise in the areas that interest you most, including:

Year 1 Genetics and Evolution
Microbiology
Plant Biology and Ecosystems
Marine Ecology
Animal Behaviour and Ecology
Marine Biology Field Skills
Scientific and Transferable Skills for Biosciences

Year 2 Marine Biology Residential Field Course
Marine Biodiversity
Marine Vertebrates
Professional Skills for Ecological and Marine Scientists
Coral Reef Biology (Optional)
Plant Molecular Physiology and Genetics (optional)
Ecology: Populations and Communities (optional)
Biodiversity and Conservation (optional)
Microbial Diversity and Biotechnology (optional)
Tropical Marine Field Research Skills (optional)

Year 3 Research Project (Ecological and Marine Sciences)
Estuarine and Coastal Ecology Field Course
Fisheries Ecology
Pollution: Impacts and Management (optional)
Conservation Management and Practice (optional)
Sustainability (optional)
Freshwater Ecology (optional)

The University of Glasgow

BSc (Hons) Marine Biology (4 years)

The University of Glasgow

71 Southpark Avenue

Glasgow

G12 8QF

United Kingdom

Contact

Tel: 0141 330 2999

Fax: 0141 330 2961

Website: <http://www.glasgow.ac.uk/undergraduate>

Levels 1 & 2 provide a foundation in modern biology, including: Ecology; Environmental Toxicology; and Pollution Biology. Level 3 gives a thorough grounding in many aspects of Marine Biology and Level 4 explores the applications of Marine Biology to Marine Resource Development and Marine Environmental Protection. Fieldwork plays an important part in the programme.

The programme aims to produce good Marine Biologists with training in applied aspects of marine resource exploitation and protection. The programme is designed to allow graduates to find employment in many areas of modern biology. Specialist destinations include environmental consultancies, the water industry, conservation bodies, aquaculture companies and government research organisations.

Level 1:- Introduces Biology largely as Human Biology with accompanying courses in Applied and Environmental Biology. Additional subjects include Mathematics for Scientists and Chemistry, as required for an understanding of future courses in Biochemistry and Physiology.

Level 2 :- Concentrates on broad topics in Biology, especially Whole Organism Biology of Animals; Plants and Microorganisms; Cell Structure and Biochemistry; and Nutrition and Health.

Level 3:- Core courses in Marine Biology focus on Marine Biodiversity; Marine Environmental Biology and Practical Marine Biology.

Level 4:- Advanced topics in Marine Biology including: Estuarine and Coastal Management; Fish Physiology and Nutrition; Marine Environmental Monitoring; Marine Chemical Ecology; Marine Biotechnology; and Shellfish and Crustacean Culture. A selection of optional courses is also offered. A research project provides the practical component of the final year of study.

Hatfield

University of Hertfordshire, Hatfield Campus, College Lane, Hatfield, Herts,
AL10 9AB

01707 284000 Fax: 01707 284115

BSc (Hons) Environmental Management

First Year - Develop an understanding of biodiversity and how ecosystems function and how we can use resources more sustainably. Develop research skills using geographic information systems (GIS), data analysis, surveying and map work. Attend a week long field course.

Second Year - Develop knowledge of how our environment can be understood as changing, with the topic areas of ecology and environmental quality forming a central part of your studies. Areas of optional study include geospatial information and rural development.

Final Year – An individual research project will be a key focus in the final year. This is complemented by core modules focused on habitat management and monitoring. Areas of optional study include biological conservation, the management of environmental problems and the green economy, countryside management, and geospatial information.

Why choose this course?

Environmental Management at the University of Hertfordshire is designed to develop your understanding of environmental processes, their measurement, and the techniques used to better manage the interrelationships that exist between society and the environment.

Heriot-Watt University, Edinburgh

BSc (Hons) Marine Biology (4 Years)

Edinburgh Campus
Edinburgh
EH14 4AS
United Kingdom

Contact

Tel: 0131 451 3376

Fax: 0131 451 3630

Email address: ugadmissions@hw.ac.uk

Website: <http://www.hw.ac.uk>

Levels 1 & 2 provide a foundation in modern biology, including: Ecology; Environmental Toxicology; and Pollution Biology. Level 3 gives a thorough grounding in many aspects of Marine Biology and Level 4 explores the applications of Marine Biology to Marine Resource Development and Marine Environmental Protection. Fieldwork plays an important part in the programme.

The programme aims to produce good Marine Biologists with training in applied aspects of marine resource exploitation and protection. The programme is designed to allow graduates to find employment in many areas of modern biology. Specialist destinations include environmental consultancies, the water industry, conservation bodies, aquaculture companies and government research organisations.

Level 1:- Introduces Biology largely as Human Biology with accompanying courses in Applied and Environmental Biology. Additional subjects include Mathematics for Scientists and Chemistry, as required for an understanding of future courses in Biochemistry and Physiology.

Level 2:- Concentrates on broad topics in Biology, especially Whole Organism Biology of Animals; Plants and Microorganisms; Cell Structure and Biochemistry; and Nutrition and Health.

Level 3:- Core courses in Marine Biology focus on Marine Biodiversity; Marine Environmental Biology and Practical Marine Biology.

Level 4:- Advanced topics in Marine Biology including: Estuarine and Coastal Management; Fish Physiology and Nutrition; Marine Environmental Monitoring; Marine Chemical Ecology; Marine Biotechnology; and Shellfish and Crustacean Culture. A selection of optional courses is also offered. A research project provides the practical component of the final year of study.

University of Hull

University of Hull International Fisheries Institute (Hifi), Cottingham Road, Hull HU6 7RX

Tel:- 01482 466421

Fax:- 01482 470129

E-mail:- hifi@hull.ac.uk ;

Website:- www.hull.ac.uk/hifi

B.Sc. (Hons) Aquatic Biology with Fisheries. It includes the following modules taught by HIFI staff: Fish Ecology, Freshwater Fisheries and Conservation, Fisheries Resource Management, Aquaculture, Coastal Fisheries Management, Fisheries Development

Taught Programme (Postgraduate Diploma/Master of Science)

Areas for study may be selected from: Fisheries Policy and Planning, Fisheries Science, Inland Fisheries Management and Aquaculture, Aquatic Resources and the Environment, Coastal and Estuarine Studies, Global Biodiversity and Conservation.

The Institute runs short courses for professionals in a variety of subject areas. Currently, the Institute is able to offer several courses of five weeks' duration: Aquatic Resources and the Environment, Management of the Coastal Zone, Data Handling and Resource Assessment, Project Management for Natural Resources and the Environment

Lancaster

Lancaster University, Bailrigg, Lancaster, LA1 4YW

Tel:- +44 (0)1524 65201

<http://www.lancaster.ac.uk/>

The environment centre runs three degrees which feature modules relevant to those thinking about working in the fisheries sector. The Environmental Biology BSc (Hons) includes an Aquatic Ecology module. The Environmental Science BSc (Hons) includes Hydrology, Aquatic Biogeochemistry and Water Resource Management. Ecology and Conservation BSc (Hons) includes Aquatic Ecology and Recent Changes in Aquatic Environment modules.

University of Liverpool

University of Liverpool

Foundation Building, Brownlow Hill, Liverpool L69 7ZX, United Kingdom

Tel:- +44 (0)151 794 5927

<http://www.liv.ac.uk/study/undergraduate/courses/biological-sciences-bsc-hons/module-details/>

The university offers a Biological Science BSc (Hons) which modules cover such topics as ecology, conservation, biodiversity and marine ecosystems.

Liverpool John Moore's University

70 Mount Pleasant, Liverpool, Merseyside L3 5UA

Tel:- 0151 231 2121

<https://www.ljmu.ac.uk/study/courses/undergraduates/2016/biology>

The BSc (Hons) Biology programme at Liverpool John Moore's University gives you the opportunity to study a variety of specialisms, such as genetics, microbiology, ecology, along with health and disease states, while also offering you opportunities to complete exciting placements and overseas fieldwork.

Stepping stone to careers in microbiology, embryology, clinical and veterinary science, wildlife conservation, microbiological food and water safety
Option to choose between a year's work placement or a 4-6 week work-based learning placement. Opportunities to take part in overseas fieldwork.

King's College London

Strand, London WC2R 2LS, England, United Kingdom.

Tel +44 (0) 20 7836 5454

Queen Mary University of London

Mile End Road

London E1 4NS

Tel: +44 (0)20 7882 5555

[School of Biological and Chemical Sciences](#)

Tel: +44 (0)20 7882 3321/3364

email: sbcs-admissions@qmul.ac.uk

The biology programme offers students the chance to study subjects spanning the whole of the biological sciences from human disease to ecology and evolution, neuroscience to dinosaurs. Students who want to study a broad range of subjects will enjoy the great flexibility that this programme offers.

In your first year, you will gain a strong understanding of the concepts underpinning biology as you study subjects including evolution, ecology and physiology.

In your second and final years, you can either retain this broad approach or choose to focus on one of many specialist fields including neuroscience, genetics, dinosaurs, mammals and parasites.

Our programme gives you the opportunity to gain practical, real-world skills and experience through in-depth laboratory practicals and a range of residential field courses. Our strong emphasis on fieldwork offers students a wide range of opportunities in the UK and abroad including:

The University of Manchester

Oxford Rd

Manchester

M13 9PL

UK

Tel:- +44 (0) 161 306 6000

Biology (3 Years) [BSc] <http://www.ls.manchester.ac.uk/>

This course will suit you if you want a broad biological course while avoiding early specialisation. You can keep your options open and cover a wide range of areas; or you have the flexibility, when you identify areas that interest and hopefully excite you, to focus on particular biological topics. You can benefit from a wide spectrum of training in the life sciences from staff who are specialists in their chosen subject areas. Many biology students report that field courses were their favorite units; these take place in locations in the UK and abroad, chosen for the richness and interest of their flora and fauna.

Plymouth University

BSc (Hons) Marine Biology and Coastal Ecology (3 or 4 years)

Drake Circus
Plymouth
PL4 8AA
United Kingdom

Contact

Tel:- 01752 585858

Fax:- 01752 588055

Email address:- admissions@plymouth.ac.uk

Website:- <http://www.plymouth.ac.uk>

Year 1

In your first year, you'll be introduced to marine biology, ecology and key biological themes, with topics from biodiversity and ecosystems to evolution and animal behaviour. Via lectures, small group tutorials, lab and fieldwork, you'll begin to acquire skills that will boost your employability and help your career development. You'll benefit from hands-on experience on the Devon coastline, and an overseas residential field course, exposing you to different marine organisms and developing your scientific skills.

Core modules:-

Evolution and Biodiversity
Introduction to Marine Biology
Life on Earth
Marine Biology Field Course
Physical and Chemical Processes of the Ocean
Biology of Sex
Making Waves: Representing the Sea,
Our Ocean Planet
Robot Design and Build
Scientific Method and Ethics in Biology

Year 2

In your second year, you'll sharpen your practical skills on the South Devon coastline, just minutes away. We'll introduce you to methods for collecting, handling and analysing scientific data, understanding ecological theories, applying these to shallow water marine habitats, and getting to grips with the major threats faced by aquatic habitats worldwide. You'll gain a deeper understanding of what shapes marine and coastal biodiversity through a residential field course, currently held in South Africa.

Core modules:-

Coastal Biodiversity and Ecology Field Course

Ecology
Ecology of Shallow Water Marine Habitats
Methods in Marine Biology and Coastal Ecology

Optional modules:-

Applied Aquatic Biology
Biology of Marine Organisms
Ecophysiology of Marine Animals
Measurement and Monitoring in the Underwater Environment
Principles of Conservation Biology
Optional modules

Industrial Placement:-

A 48-week period of professional training spent as the third year of a sandwich programme undertaking an approved placement with a suitable company. This provides an opportunity for the student to gain relevant industrial experience to consolidate the first two stages of study and to prepare for the final stage and employment after graduation.

Final Year

Conduct an extensive personal research project, applying the skills and methods you've learned.

Core modules:-

Marine Ecology
Personal Research
Applied Conservation Biology
Behaviour and Physiology of Marine Animals
Behavioural Ecology
Ecology and Conservation of Marine Vertebrates
Global Change Biology
Marine Algae: Eco-Physiology and Utilization
Marine Microbiology - Ecology and Applications
Speciation and Diversity

University of Portsmouth

BSc (Hons) Marine Biology

Academic Registry
University House
Winston Churchill Avenue
Portsmouth
PO1 2UP

Contact

Tel:- 023 9284 5566

Fax:- 023 9284 8888

Email address:- admissions@port.ac.uk

Website:- <http://www.port.ac.uk>

Year one

Core units in this year include:

Introduction to Cell Biology and Biochemistry

Biodiversity and Evolution

Marine and Terrestrial Ecology

Microbiology and Molecular Biology

Experimental Biology

Graduate Skills

Year two

Core units in this year include:

Marine Organisms and Ecosystems

Community Ecology and Residential Marine Field Course

Animal Science

Marine Research Skills

Options to choose from in this year include:

Oceanography

Microbiology

Plant Science

Basic and Scientific Diving

A foreign language

Year three

Undertake an individual research project on your own research interests.

Core units in this year include:

Coastal Ecosystems

Applied Marine Biology

Marine Ecophysiology

Options to choose from in this year include:

Aquatic Microbiology

Ecology and Conservation

Global climate change

University of Stirling
BSc (Hons) Marine Biology and BSc (Hons) Aquaculture

Student Recruitment & Admissions Service
University of Stirling
Stirling
Scotland
FK9 4LA
United Kingdom

Tel:- 01786 467044

Fax:- 01786 466800

Email address:- admissions@stir.ac.uk

Website:- <http://www.stir.ac.uk>

This innovative course, will train you in all subjects appropriate to global aquaculture. Aquaculture - or aquatic agriculture - is much more than 'fish farming' and includes culture of species such as prawns, shrimps, mussels, oysters, crocodiles, turtles and algae. Aquaculture already produces more than half of all of the fish consumed globally.

The Institute of Aquaculture is the largest multi-disciplinary aquaculture department in the world, with 100 staff and 110 postgraduate students, and has a practical involvement in industry through its own fish farms, marine station and many commercial activities. There are especially strong links with research and development organisations worldwide.

Year 1 Our Blue Planet, Introduction to Cell Biology, Practical Science Skills and Laboratory Skills. Introduction to Physiology, Practical Science Skills and Field Skills

Year 2

Introduction to Aquatic Environments, Evolution and Genetics, Science of Diving, Biodiversity and Statistical Techniques

Year 3

Management of Living Aquatic Resources
Animal Physiology
Microbiology
Aquaculture Field Course
Advanced Marine Biology

Year 4

Aquaculture Honours Project
Aquaculture Disease (½ module)
Aquaculture Nutrition (½ module)
Aquaculture Production Environments (½ module)
Aquaculture Genetics and Reproduction (½ module)
Aquaculture General Exam

Swansea University

BSc (Hons) Marine Biology (Three years)

Admissions Office

Singleton Park

SWANSEA

SA2 8PP

United Kingdom

Tel:- 01792 295111

Fax:- 01792 295110

Email address:- admissions@swansea.ac.uk

Website:- <http://www.swansea.ac.uk/undergraduate/>

Swansea was one of the first universities in the UK to offer a single honours undergraduate degree in Marine Biology. It is internationally recognised for its quality and breadth of study. With our unique coastal location, we have easy access to a wide range of study habitats including exposed rocky shores, steep cliffs enclosing sandy sheltered bays, salt marshes and estuarine mudflats. Many of the modules are highly practical and fieldwork based. Our inshore research vessel, the R.V. Noctiluca, is widely used for teaching and offers a platform for project work at sea. All second year Marine Biology students receive training at sea.

This guide was compiled and produced by the Institute of Fisheries management. Whilst every care has been taken to ensure all the university and college details are correct, courses do change from time to time, therefore it is important to check the details within this guide are current with the individual institute.



Institute of Fisheries Management