



Undergraduate and Postgraduate Courses 2016

There is something special about Sparsholt



Students tell us they love the spirit of the campus and the enthusiasm, passion and commitment of the staff.

It is a truly unique experience to learn from some of the country's leading experts in their chosen fields, with such impressive industry links and contacts that naturally provide exciting opportunities for our students.

The facilities on site are equally impressive, providing access to the latest technology as well as a stunning learning environment that is at times, quite simply breath-taking.



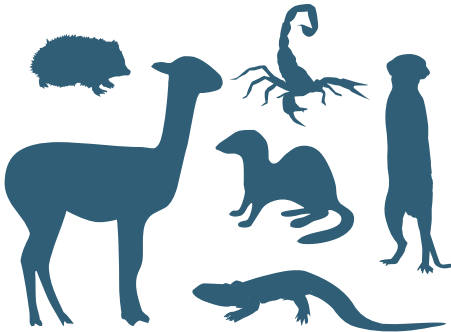
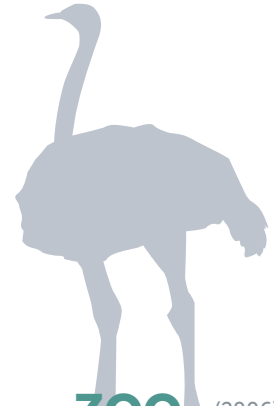
Student Satisfaction

(above national average) NSS data 2014



satisfaction with student facilities

NSS data 2014



One of the

1st

colleges to be awarded a

ZOO LICENCE (2006)

1200

animals from

200 species

underpinning evidence based husbandry and research



RHS Chelsea Gold Medal Winners



BIAZA

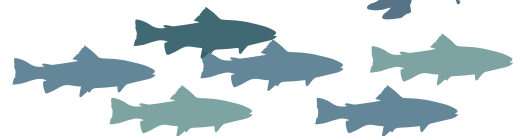
BRITISH & IRISH ASSOCIATION OF ZOOS & AQUARIUMS

Unique employer links with zoos, safari parks, bird parks and aquaria

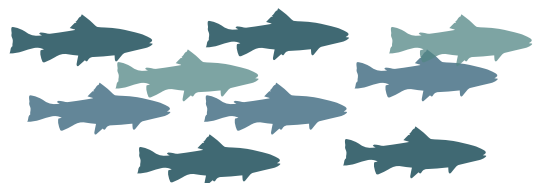
Principal provider of employees to fishery industries



of graduates are in employment or further study (DLHE 2013)



Unique Salmonid research facilities





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Welcome

Welcome to our undergraduate and postgraduate prospectus for 2016.

With over 100 years of land-based education to be proud of, we have established ourselves as one of the country's leading land-based institutions. Our international reputation is also growing, with our unique Diploma in the Management of Zoo and Aquarium Animals being delivered in the Baltics, the Middle East and soon to be rolled out in India and China.

As you can see from the previous page we have a number of accolades and achievements of which we are justifiably proud, but these are only a few of the many successes that take place on and off campus for our students all year round.

We are proud of the knowledge and expertise of our course lecturers who are leading changes in the industry through their impressive portfolios of research. Their support for both undergraduates and postgraduates is unwavering and as a result our student research portfolio is also impressive.



Please take the time to research your options and visit us at one of our open days - and see for yourself how the passion and commitment of everyone at Sparsholt is infectious.

A handwritten signature in blue ink, which appears to read 'Tim Jackson'.

Tim Jackson, Principal

Validating University

All of our undergraduate and postgraduate courses are validated by the University of Portsmouth. Our Associate College Status recognises the commitment to quality and high standards between the two organisations.

The Times Higher Education World University Rankings 2014 place the University of Portsmouth in the top 2% of universities worldwide and among the best in Europe.



Quality Assurance Agency for Higher Education

At the most recent QAA Higher Education Review (March 2014), Sparsholt College was found to have met all expectations for a higher education provider in the UK. They noted many areas of good practice, including the strength of the College's links with industry and the numerous ways in which the College engages with students.

See the full report on the QAA website.



Which Degree?

FdSc (Foundation Degree)

A Foundation Degree is a Level 5 standalone qualification that is usually delivered in two years full-time or three years part-time. These courses are designed to equip you with skills and knowledge relevant to your employment and can be topped up to a full BSc (Hons) degree with an additional year of study.

Many of the courses include periods of work experience.

BSc (Hons) Degree

An Honours Degree is a Level 6 qualification designed to develop higher-level skills in order to be successful in employment at a professional level. As a BSc (Hons) graduate you would be able to develop your career towards management, research and academic careers. Our courses also contain a strong practical element and our links with industry ensure they remain industry relevant and improve your overall employability at the end of the course.

Master's Degree

A Master's degree is an advanced level qualification for those who have completed a full degree. It is an intense period of study normally lasting one year full-time or two years part-time and includes taught and research components (thesis).

Master's degrees are undertaken by those interested in an academic career or higher level employment as managers or directors.



91%

of graduates have gone
into employment or
further study (DLHE 2013)

Applying to Sparsholt

Full-time undergraduate courses

All applications must be made through UCAS online at www.ucas.com

The institution code for Sparsholt is S34

Once you have submitted your application through UCAS and received a conditional or unconditional offer you will be invited to come to a viewing day in March, specifically for our HE applicants with offers. You will be able to get a real feel for the College as there will be a series of guest lectures in your subject area, a chance to take part in a practical session, tutors will be on hand to answer queries about the courses and our Student Services team will be available to discuss fees, student support and accommodation.

International students - please visit our website for details of how to apply.

Part-time courses and full and part-time postgraduate courses:

Applications should be made directly to the College using the form inside this book or on our website, please indicate which year of entry you require.

Applications for tuition fee and student loans for full and part-time courses must be made through Student Finance England if you live in England (<https://www.gov.uk/student-finance>).

If you are not from England relevant information can be found:

Scottish - <http://www.saas.gov.uk/>

Welsh - <http://www.studentfinancewales.co.uk>

Northern Irish - <http://www.studentfinancenir.co.uk>

EU - <http://www.ucas.ac.uk/students/wheretostart/nonukstudents/money>

For enquiries and/or course information, please either telephone Admissions on 01962 797269 (full-time courses), 01962 797213 (part-time courses) or email courses@sparsholt.ac.uk



Life in Hampshire

Life in Hampshire is diverse; it can range from lazy days on the beach, to pony-trekking in the New Forest, and nights out in Winchester, Southampton or Basingstoke. Winchester is a small but lively city with leafy surroundings and a strong heritage, so it is easy to see why it was listed as the third best place to live in the UK according to The Halifax Quality of Life survey 2014. With award-winning pubs and bars, foodie cafés and restaurants, an independent cinema, two theatres and venues for concerts and shows, Winchester has something to suit all tastes and budgets.



Student Accommodation

You can either choose to live in Halls of Residence at the University of Winchester, just four miles from the College, or on the Sparsholt campus in our self-catered accommodation.

University of Winchester Accommodation

This accommodation gives you a real university experience with easy access to shopping and leisure facilities in the city, plus the Student Union and sports facilities in the University Centre. If you decide to live in the University of Winchester accommodation you will be able to access:

- the restaurants and cafés
- the Student Union bar
- the Student Union clubs and societies
- the library including book loans and photocopying

A regular bus service runs between Winchester and the Sparsholt campus. You can buy a pass through the College at a cost of £385 for the academic year.



I chose to live in the halls at the University of Winchester because the social life is great and I've made lots of new friends from different courses.



Sparsholt Campus Accommodation

Choosing this accommodation would give you the experience of living in a smaller, rural community where you will benefit from living closer to where you study. There is a fully-equipped Sports Centre, restaurant, bar, café and library.

Accommodation Fees

- Sparsholt self-catering accommodation - £4,364
- The University of Winchester Halls of Residence - £5,065

If you prefer to live in an independent or family setting, the College can help with arranging private accommodation but cannot guarantee to provide or find a place on behalf of students.



A Beautiful Campus set in 400 Acres of Hampshire Countryside

Just an hour from Central London by train, four miles from historic Winchester, the main campus sits in 400 acres of beautiful Hampshire countryside. Faculties have state of the art facilities that give students real industry experience and our resources are also hired by industry for trials, testing and training.

- Nationally Renowned Animal Management Centre with an established zoo licence
- Specialist Veterinary Nursing Training Centre
- National Aquatic Training Centre incorporating a Fisheries Trials Unit
- Salmonid Rearing and Trials Centre
- Equine Centre with indoor and outdoor arenas and cross country fences
- A fully-operational commercial farm including dairy, sheep, pigs and arable
- Home of the BBC Radio 4 Gardeners' Question Time 'Potting Shed'
- Tropical glasshouses
- Established orchard
- Our own herd of Sika deer
- A dedicated Game and Wildlife Centre
- Natural habitat for research and observation
- Specialist industry standard laboratories and equipment

A person wearing a black riding helmet and a high-visibility yellow vest is riding a brown and white horse. They are positioned behind a metal fence in a lush green field. In the background, there are trees and a building partially visible. A dark grey semi-transparent box is overlaid on the right side of the image, containing text.

More than just a classroom

- Sports Centre with a full size sports hall, climbing wall, gym, fitness suite and a sprung floor dance studio
- Higher Education Study Centre
- Dedicated Higher Education seminar rooms
- On-site library with space for research, reading and studying. Fully-equipped with specialist resources both on and off-line
- Virtual Learning Environment - Moodle
- Range of cafés and restaurants on-site
- Access to facilities at the University of Portsmouth including the library, online resources and clubs, and sporting facilities

Here to help

At Sparsholt students frequently comment on the high level of academic and pastoral support provided by our team of highly experienced and qualified staff.

Tutorial Support

You will have regular tutorials with your allocated tutor which will give you the opportunity to discuss your progress and resolve any issues that might be arising.

Student Services

The Student Support team are on hand to help with a range of issues such as housing, relationships, financial matters, travel and health. There is also a dedicated help desk open all day throughout term time.

Counselling Support

It can sometimes help to talk about your concerns with one of our College counsellors, who are available for confidential one-to-one sessions during term time. Appointments can be booked direct with the counselling service.

Careers Advice

Full and part-time vacancies are posted on the student intranet and a dedicated careers adviser is available to support students with job applications. Course tutors are also an excellent source of knowledge and contacts for their particular industries.

College Nurse

A fully qualified nurse is available at Sparsholt for on-site residential students to resolve minor medical conditions, provide first aid and deal with emergencies.



The teaching and support helped me to achieve excellent results in my studies.



Learning Skills Support

Sessions are available for students needing advice and guidance, specialist support with dyslexia or language issues, advice on appropriate materials and equipment and assessment leading to exam concessions.

For students with physical or sensory impairments, health issues or specific learning difficulties such as dyslexia, dyspraxia and Asperger's syndrome there is a programme of support available through the Disabled Students' Allowance (DSA) which includes:

- Assessment of need
- Assessment for examination concessions
- Access arrangements in exams such as appropriate assistive technology
- Support by highly qualified tutors
- Confidential advice may be obtained from the Higher Education Disability Support Adviser
- Support to obtain DSA. Student Finance England require specific needs assessment for higher education. Where possible this should be done before you start your course so learning support can be in place for the start of your course.





International Students

Sparsholt College has an international reputation attracting students from across the world to participate in the research, learning and practical preparation for global careers in equine fields, animal management, ecology, conservation, and aquaculture.

Our campus is set in open rolling countryside, 8km from Winchester; just one hour from Heathrow Airport by car; and one hour from central London by train; giving you the best of both worlds.

Living and working in a different culture can be a hugely exciting prospect, and we will do all we can to ensure that your experience of studying in the UK is a positive and productive one. The International Office is here to provide you with all the advice, guidance and support from first contact, to helping you with your

application, through to settling in to life and study at the College with our Meeting and Orientation Programme.

Sparsholt international students have the opportunity to take up a place in the University of Winchester Halls of Residence, giving you access to a large community of international students, as well as living in safe, historic Winchester.

The international pages on the College website aim to provide you with all the information that you may need to make an informed decision about studying at Sparsholt. It will then guide you through the application process. If you are coming from a country requiring a visa, there is also detailed information there about Tier 4 (General) student visa requirements.



Mature Students

The specialist courses offered at Sparsholt attract a significant proportion of students returning to learning at all stages of life. For some people the attraction may be a change of career or lifestyle, for others a higher qualification or improved job prospects, and many study for their own personal satisfaction. Whatever your circumstances, you can be sure you will not be alone.

Going back to study can often mean giving up a regular salary and juggling the commitments of home life. Financial support is available in some cases. Please see page 96 for more information. For practical support, you have the backing of the College's Student Support and Advice services, which are accessible for all.





“

I was impressed by the fantastic setting and welcoming environment – especially after being out of education for a while I felt it was really inviting.

It is a well-established course, with deadlines which are achievable and access to support; so despite working full-time and having a home life I managed to maintain a good balance.

”



Access to Land-based Studies Programme

NEW FOR 2015

Why choose this course?

- Fast-track entry route to Higher Education
- Continuous assessment with no final exams
- Gain GCSE English and Maths alongside this course

What will I learn?

The course includes elements of Chemistry, Plant and Animal Biology and Ecology, together with providing the knowledge and support needed to be able to carry out and present a small-scale research project. You will study a range of core subjects and follow some specialist units in either Animal Studies, Equine Studies, Ecology and Conservation, Fishery Studies (subject to validation), or Horticulture.

Teaching is delivered through a supportive mixture of taught sessions, seminars, tutorials and practical lessons which will help you build your knowledge and understanding of your chosen specialism, while gaining the ability to research and present your ideas as reports and presentations.

How will I be assessed?

This intensive programme is assessed throughout the course, without final exams. Assessment will include essays, presentations and reports – all of which will prepare you for Higher Education.

Where can I go from here?

By the end of the course you will be fully prepared to progress onto a range of FdSc or BSc (Hons) programmes and take the next step towards your career goals.

Entry requirements:

No formal qualifications are required, but you will need to be confident with written and spoken English.

Most students will progress to the relevant programme at Sparsholt and you will be supported to do this by your tutors.

If you do not yet have the GCSE English or Maths grades needed for university entry you will study these alongside the Access programme.

Most learners are aged 19 or above at the start of the course, however entry at 18 may be possible – please contact the College for more details.



Sparsholt helped me to realise I could aim higher and the staff helped me to specialise within the zoo sector.



Faculty of Animal Management and Veterinary Nursing Science

Head of Faculty:

Kathy Bamber PGCE, BA, BHS II (Reg'd)

COURSES

MSc

Applied Zoo Biology (subject to validation)

One year full-time, two years part-time

BSc (Hons)

Animal Management

Three years full-time

Top-up: one year full-time

BSc (Hons)

Applied Animal Behaviour Top-up

Two years part-time

BSc (Hons)

Zoo Biology Top-up (subject to validation)

One year full-time, two years part-time

FdSc

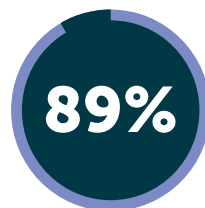
Animal Management and Applied Science

Two years full-time

FdSc

Veterinary Nursing Science

Three years full-time



satisfied with the quality
of teaching (NSS 2014)



INDUSTRY LINKS

Sparsholt College's contribution to innovative research, conservation and veterinary nursing is acknowledged both in the UK and overseas.

A full member of the British and Irish Association of Zoos and Aquariums (BIAZA), the College is home to the Animal Management Centre, one of the largest living collections of any UK college, which achieved licensed zoo status in 2006.

Staff in the Animal Management team bring their expertise to research committees, welfare groups and awarding bodies, playing an active role as assessors and advisors on a national scale. The College enjoys strong links with a range of wildlife, conservation and commercial organisations, allowing students to access work experience and carry out industry-relevant research.

We work with organisations such as:

- The Royal College of Veterinary Surgeons (RCVS)
- The British and Irish Association of Zoos and Aquariums (BIAZA)
- The Royal Zoological Society of Scotland
- The Living Rainforest
- Marwell Wildlife
- Natural England
- The World Pheasant Association
- Rare Breeds Survival Trust



Being at Sparsholt also meant I could get involved in lots of exciting research projects which have prepared me for the MSc I'm studying now.



UNRIVALLED FACILITIES



Purpose-built Animal Management Centre

- Licensed zoo with over 1200 animals from almost 200 species
- Home to a wide variety of bird species, many of which are part of international breeding programmes
- Research room dedicated to specialist husbandry techniques for a variety of critically endangered amphibian species
- Outdoor sections include wallaby and mara as well as goats, llamas and alpacas
- Exemplary collection of herptiles
- Offers students the unique opportunity to work with exotic species such as red panda, meerkats, tenrecs and lemur
- Used for nutritional and animal behaviour studies
- Practical work such as enclosure design replicating the animal industry

Industry-standard Veterinary Nursing Centre

- Working environment of a contemporary veterinary practice
- Students can gain practical experience in a realistic work setting

The College Farm

- Students experience routine handling of farm animals
- Includes pig, dairy and lambing units
- Successful commercial enterprise

Sparsholt College students benefit from ongoing links with industry for curriculum development, work placements, industry contacts and real work-based projects. In the Faculty of Animal Management and Veterinary Nursing Science, students have been involved in research with organisations from wildlife parks to police dog handlers, spanning a diverse range of species and issues.

Recent Research Titles - BSc (Hons) Animal Management:

Impact of visitor numbers on the behaviour and cortisol levels of white rhino at Longleat Safari and Adventure Park – Victoria Barsham, Mandy Tamba and Kerry Hunt

This study looked at how an increase in visitor numbers impacted the stress levels and behaviour of a herd of four rhino. Research was collected during August and September to compare peak visitor numbers to the lower term time values. Data collected showed that the amount of visitors present did not seem to impact on the welfare of these rhino; however, more research into the factors effecting the stress level on these animals in captivity is required.

A review of the impact of nocturnal enrichment for Asian elephants at Woburn Safari Park – Stephanie Bignell, Paul Rose and Kerry Hunt

Enrichment is commonly provided in zoological collections for the majority of species housed and lots of research has been conducted into how effective these are during normal opening hours. There is, however, limited research on the effectiveness of enrichment left in the animals' enclosures overnight. This research showed that the elephants were utilising enrichment devices throughout the night, even when the objects no longer contained food items.

Comparison of salivary cortisol levels of police, gun and assistance dogs – Tara Humphries, Emma Skirrow, Lorna Cameron and Kerry Hunt

Salivary cortisol was collected from 10 police, 10 gun and 10 assistance dogs after they had completed a training task that would be

considered part of their normal routine. Salivary cortisol results showed that assistance dogs had significantly higher cortisol levels than the other working dog categories. The data also showed that sex and age had an impact on cortisol levels with females and older dogs recording higher cortisol levels in this study.

The relationship between body condition score and lameness in dairy cattle – Gemma Isaac, Roger Coffin, Lorna Cameron and Kerry Hunt

A herd of 49 dairy cattle were observed over summer 2013 with data collected on their gait and body condition score (BCS). There was a relationship between BCS and lameness as animals with a lower body condition score were more likely to be lame; however, it is unclear if lowered BCS increased lameness or lame animals BCS decreased. Age, breed and lactation stage all impacted on the relationship between BCS and lameness.

Investigating nutrient provision and digestibility of red-crested turaco diets across several UK collections – Alex Hulbert, Kerry Hunt and Paul Rose

Red-crested turacos' diets from five different UK collections were compared to the current husbandry guidelines. Digestibility of the diets was also analysed using directly collected samples. No significant differences were observed in fibre or protein provision between collections; however, there was a significant difference in copper values which is important as copper is used to maintain plumage colouration. Overall, longer term studies are recommended; however, from the data collected, collections should be increasing fibre provision to turacos as this is currently lower than the recommended amounts.

STUDENT VIEW

Flavian Otieno

Previous BSc (Hons) Animal Management Student

Current position: Pig Person at Plumpton College

I chose to do this course at Sparsholt College because it gave me the opportunity to learn about species I wouldn't have had access to if I went to university. The social life was good and I chose to live on-site in the self-catering accommodation, which was handy for lectures and practicals.

The teaching and support provided by the staff at Sparsholt enabled me to excel in my studies and I am now the Assistant Pig Person at Plumpton College in East Sussex. I applied for this job as part of a personal industry development assignment in my final year and I started the job while still doing my final year and commuted for three months for some lectures and exams.

Being at Sparsholt provided me with the opportunity to fine tune my future career aspirations of working in the pig industry. With the help of John Garrett at the pig unit and work placement opportunities, my knowledge of the industry improved.



SPOTLIGHT ON...

Paul Rose MSc, PGCLTHE, BSc (HE Animal Management Lecturer)

Areas of Teaching Expertise

Captive Wild Animals, Animal Behaviour and Welfare, Applied Animal Health, Conservation Biology

About Me

I am currently undertaking my PhD in the social organisation of captive wild animals. My specific research interests are in the social organisation of giraffe and flamingos within a zoo environment. I spend a good deal of my time at the Wildfowl & Wetlands Trust (WWT) Slimbridge where I am investigating the group dynamics of the flamingo flocks that are held there.

I am a member of the IUCN Giraffe & Okapi Specialist Group, the Giraffe Conservation Foundation and the IUCN Flamingo Specialist Group. I am also vice-chair of the BIAZA Research Committee and the Research Liaison Officer for the BIAZA Bird Working Group. I have strong links with several other university departments and am a Senior Fellow of the Higher Education Academy.

Recent Activities

- Publication - Rose, P. E., Croft, D. P. and Lee, R. (2014), A review of captive flamingo (Phoenicopteridae) welfare: a synthesis of current knowledge and future directions. *International Zoo Yearbook*, 48: 139–155
- Filming for wildlife programmes and the news, including “Animals in Love” (BBC1), working with Sir David Attenborough for his current series of Natural Curiosities and Oxford Scientific Films for a new series for ITV
- Presentation at the Third International Flamingo Symposium in San Diego, October 2014
- Managing social media for the IUCN flamingo Specialist Group and for the BIAZA Research Committee and writing a blog of my research

MEET OUR EXPERTS

Steve Nash

MSc, PGCE (PCET), BSc (Hons), Dip Zoo An Man, SFHEA



My interests are zoo biology and herpetology and I hold a BSc, PGCE and MSc. I have worked in various zoos in the UK (Banham and Chester) and overseas in Cameroon. I am a member of the BIAZA research committee and research liaison for the BIAZA reptile and amphibian working group. I am also the specialist national assessor for reptile and amphibian modules on the DMZAA.

Lisa Riley

PhD, MSc, MRes, BSc (Hons)



I am a primatologist and have a Doctorate in chimpanzee social learning and welfare. I have worked as a senior scientific officer at the RSPCA and have collaborated with Monkey World Ape Rescue Centre in Dorset to raise awareness of welfare issues of keeping primates as pets. I have also attended parliament to provide evidence on this issue. In addition I have studied primates in the wild to investigate population density and niche separation within the primate community at Budongo Forest, Uganda. I am particularly interested in cognition and environmental enrichment in primates and other captive animals.

Emma Skirrow

BSc (Hons), RVN Cert Ed, FHEA



I hold a BSc (Hons) Veterinary Nursing Science and qualified as a Veterinary Nurse in 2007 (NVQ 3) and am a registered Veterinary Nurse with the RCVS. I also hold a City and Guilds Certificate in the nursing of exotic species, gained in 2009 from Edinburgh's Telford College. I am a qualified clinical coach supporting student veterinary nurses in practice. My interests include practical nursing skills including Schedule 3 procedures and surgical nursing, the nursing of exotic species and emergency and critical care.

Andy Beer

PGCE, BSc (Hons), FHEA



I am the Nutritionist for the Royal Zoological Society of Scotland (RZSS) which involves evaluating and modifying the diets of the large range of species within their two animal collections at Edinburgh Zoo and Highland Wildlife Park. I am also currently a member of The Education and Training Committee of BIAZA, The Nutrition sub group of the Elephant Welfare group of BIAZA, The species committee of Pigs & Peccaries of EAZA, Nutritional Advisor to The Hippo & Tapir Taxon advisory Group of EAZA and Nutritional Advisor to the Terrestrial Invertebrates group of EAZA.

MSc Applied Zoo Biology

Why choose this degree?

- Taught by industry experts who are research active and have strong national and international links
- Benefit from one of the largest collections of animals in a UK college in our BIAZA member centre
- Combine work and study with the part-time course option, supported by a virtual learning environment to enable study off-site

What will I learn?

Building on a strong science foundation, the course is designed to expand your knowledge of zoo animal biology and refine your research techniques in aspects of zoo animal welfare, behaviour, population management and the wider roles of the modern zoo such as visitor learning.

In addition to traditional lectures and seminars, units are delivered using the practical resources of our Animal Management Centre, industry specific software and databases, conference attendance, guest speakers and off-site visits. Links are encouraged to external organisations, commercial companies and collaborative research projects.

How will I be assessed?

Units are assessed by a mix of coursework, practical assessments, exams, case studies and project work. Emphasis is placed on the development of critical evaluation and research skills with the use of formative assessments throughout the programme of study.

One year full-time or
two years part-time

Please visit sparsholt.ac.uk to
download an application form

Course Tutor

Steve Nash MSc, PGCE (PCET), BSc (Hons),
Dip Zoo An Man, SFHEA

Where can I go from here?

Career pathways include zoo or conservation research, environmental education or zoo management. Alternatively you may choose to study a doctorate or a career in lecturing.

Units covered

Research Project and Research Methods

The research project enables students to undertake a detailed experimental study in a chosen area to develop analytical research skills with the support of dedicated supervisors.

The student profile is developed throughout the programme, utilising a range of advanced academic and research skills with an emphasis on the practical industry applications of research findings. Interpretation and critical evaluation of current research findings will enable the student to further develop links between the zoo industry and the scientific community.



Evidence-based Husbandry

Zoo husbandry has traditionally relied on inference and anecdote but the need for an evidence based approach is now well documented. Practical application of species biology will be considered and developed alongside a range of methods that can be utilised to evaluate current welfare and husbandry standards. Behavioural analysis and enclosure utilisation studies will underpin this approach, along with wider consideration of health and nutrition.

Contemporary issues in Zoo Biology

This unit sets the historical context of zoos and considers their evolution. The roles of the modern zoo are considered in line with the World Zoo and Aquarium Conservation Strategy with future

trends identified and considered. Population management and conservation biology are discussed and applied to modern zoo theory with the use of industry specific software (for example ZIMS) integrated into this delivery.

Visitor Studies and Interpretation

Education is arguably the most important role of the modern zoo. This unit explores how visitors engage with and learn from the numerous opportunities provided within the zoo, drawing on the principles of interpretation, exhibitry and recreational learning theory. It explores the cultural and social context of the zoo and investigates visitor motivation and expectations. Methods of delivering the zoo message will be considered with evaluation of the effectiveness and impact of provision a key theme.

Entry requirements:

BSc (Hons) in Animal Management, Animal Science or a related subject at 2:2 or above

Subject to validation by





BSc (Hons) Animal Management

Why choose this degree?

- Benefit from the largest collection of animals in a UK college
- Develop strong scientific knowledge in key biological sciences, biochemistry, and vertebrate anatomy and physiology
- Gain strong data analysis and research skills needed for employment through project work and assessments
- Build vital experience through practical handling skills, extensive work placements and strong links with industry

What will I learn?

The programme is designed to combine knowledge and research techniques in aspects of animal welfare and behaviour, animal collections management and wildlife management. Work placements are a key feature and benefit from the College's strong links with a variety of

Three years full-time

One year BSc Top-up
also available

UCAS code: D320

Course Tutor
Kerry Hunt MSc BSc (Hons), DTLLS, FHEA

organisations. Students often choose to do their work experience overseas, with recent placements including reptile research in Indonesia, wildlife monitoring in Peru and big cat tracking in Asia and Africa. More locally, students have learnt from Bristol Zoo Gardens,

the New Forest Wildlife Park, Compassion in World Farming, The Donkey Sanctuary and the Entomology Department of the Natural History Museum. Employability is a focus of the final year, with the opportunity to research, investigate, explore - and then gain experience in - a specific career area of your choice.

How will I be assessed?

Assessment at level four and five is primarily by exams and coursework which includes practical portfolios, laboratory reports, seminars and essays. Work placements offer opportunities to gather data for the dissertation project which is submitted at level six.

There are research opportunities throughout the programme, and Sparsholt College actively submits student work to outside symposia, giving you the opportunity to present your work to the wider world.

Where can I go from here?

You can progress to the MSc in Applied Zoo Biology at Sparsholt; alternatively there are many MSc and PhD programmes available at other universities. Sparsholt graduates now work in zoological collections, animal charities and conservation both in the UK and overseas.

Units covered

Each year includes an assessed work placement unit check - or a period of work placement.

Level Four

- Animal Management 1
- Analytical Techniques
- Principles of Biology
- Work Placement
- Academic Skills
- Anatomy and Physiology

Level Five

- Population Biology
- Data Analysis
- Nutrition
- Ethology and Ethics
- Work Placement
- Animal Management 2

Level Six

- Dissertation
- Data Analysis
- Applied Animal Behaviour and Welfare
- Applied Animal Health
- Species Manipulation and Monitoring
- Professional Industrial Development
- World Animal Industry and Trade

Entry requirements:

A Level	BTEC Extended Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
Three A level passes including two at grade C or above; one should be in a life science.	DMM	M + 6 units at Distinction	N/A	N/A	A Merit profile in a relevant Access course with 45 credits at Level 3	24 points with HL Biology at 4

Plus GCSE Maths and English at grade C or above or Level 2 Functional Skills in Maths and English

Validated by





BSc (Hons) Applied Animal Behaviour (Top-up)

Why choose this degree?

- Gain the knowledge needed for certification as a Clinical Animal Behaviourist
- Combine study and work with this modular, part-time course
- Develop expertise through an extended animal behaviour dissertation project

Two years part-time

.....
Use our part-time HE application form to apply directly to us.
.....

Course Tutor

Lisa Riley PhD, MSc, MRes, BSc (Hons)

What will I learn?

Focusing on the practical application of animal behaviour science and theory, this programme studies human and animal psychology and ethology, as well as considering the anatomical and physiological control of behaviour and legislation and ethics.

Knowledge of the relationship between humans and animals is explored, including domestication and welfare.

Through the extended dissertation project you will produce a behavioural study and analyse, explain and interpret the results using techniques gained throughout the course.

How will I be assessed?

You will showcase your knowledge through a combination of written assignments, case studies, seminar presentations and exams. At level six the dissertation unit will prove your skills within the field of research and we encourage students to present this work to other organisations.

Where can I go from here?

The course works towards the knowledge elements that are required for certification as a Clinical Animal Behaviourist as identified by the Association for the Study of Animal Behaviour and the Animal Behaviour and Training Council. You can also continue your studies to MSc and PhD level.

Sparsholt students have developed their own businesses focusing on behavioural consultations with domestic species including dogs, cats and horses, as well as becoming involved with the behaviour of wild animals and conservation work. Setting up and running training schemes, for example puppy socialisation classes, and rehoming of rescue animals are also popular career choices.

Units covered

Each year includes an assessed work placement unit or a period of work placement.

Level Six - Year One

- Animal Communication Learning and Training
- Ethology Domestication and Anthrozoology
- Mechanisms of Behaviour
- Ethics Welfare and Law

Level Six - Year Two

- Human Psychology and Clinical Practice
- Data Analysis
- Dissertation

Entry requirements:

HND or Foundation Degree

Diploma of Higher Education in a suitable subject

FdSc Level 5 Veterinary Nursing

APEL Portfolio



I chose Sparsholt because it gave me the opportunity to learn about species I wouldn't have had access to if I went to university.



Validated by



BSc (Hons) Zoo Biology (Top-up)

Why choose this degree?

- Benefit from the largest collection of animals in a UK college in our BIAZA-member centre
- Develop expertise, data analysis and research skills and use them in your dissertation project
- Be taught by leading industry experts

What will I learn?

Building on a strong science foundation, the course will take your knowledge of zoo management to the next level within an industry-standard environment. You will develop research techniques in aspects of zoo animal welfare, behaviour and population management, as well as considering the wider roles of the modern zoo such as visitor learning.

The course promotes the idea of evidence based husbandry as a fundamental feature of contemporary zoo biology and combines practical research skills, husbandry techniques and vital management skills. There is also a strong data analysis theme to prepare you for and support you in your dissertation research.

How will I be assessed?

Assessment is primarily coursework based, comprising practical portfolios, case studies, seminars, reports and essays. This is supplemented in many units by an exam.

Where can I go from here?

You can progress to the MSc in Applied Zoo Biology at Sparsholt; alternatively there are many MSc and PhD programmes available at other universities.

One year full-time or
two years part-time

Use our part-time HE application
form to apply directly to us.

Course Tutor

Steve Nash MSc, PGCE (PCET), BSc (Hons),
Dip Zoo An Man, SFHEA

Sparsholt Animal Management graduates now work in a variety of roles in the zoo and conservation sectors, while others have continued in education to postgraduate level.

Units covered

Level Six

- Dissertation
- Data Analysis
- Professional Industrial Development
- Applied Zoo Animal Behaviour
- Conservation Biology
- Wild Animal Veterinary Science
- Conservation Education and Sustainability

Entry requirements:

Foundation Science Degree in Animal Management, Animal Science or a related subject.

Subject to validation by





“

I chose to study at Sparsholt because it is so well respected within the zoo industry.

”

FdSc (Foundation Degree) Animal Management and Applied Science

Why choose this degree?

- Designed with employers to give the science skills and breadth of knowledge the industry needs.
- Combine research with practical skills, lab work with field work and put theory into practice
- Benefit from working with expert lecturers and the largest collection of animals in a UK college

What will I learn?

The programme's strong science foundation includes biological science, biochemistry and vertebrate anatomy and physiology.

Students also enjoy work placements in organisations as diverse as the Veterinary Laboratories Agency, Heathrow Animal Reception Centre, organic livestock farms and wildlife conservation trusts.

You will have the opportunity to develop your academic research through the level five module on applied industrial research, choosing an area relevant to a specific sector of interest.

How will I be assessed?

Much of the assessment is coursework based - essays, reports, practical portfolios and seminar presentations. Practical activities, in-class assessments and a limited number of exams also play a part.

Where can I go from here?

You can progress onto the BSc (Hons) Applied Animal Behaviour, BSc (Hons) Animal

Two years full-time

.....
UCAS code: D329
.....

Course Tutor

Steve Nash MSc, PGCE (PCET), BSc (Hons),
Dip Zoo An Man, SFHEA

Management or BSc (Hons) Zoo Biology
Top-up programmes at Sparsholt or other organisations.

Sparsholt graduates now work in zoological collections, animal charities and veterinary practices.

Units covered

Level Four

- Animal Management 1
- Principles of Biology
- Anatomy and Physiology
- Work Practice
- Industry Skills
- Academic Skills

Level Five

- Population Biology
- Applied Industrial Research
- Work Practice 2
- Ethology and Ethics
- Animal Health
- Animal Management 2



Entry requirements:

A Level	BTEC Extended Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
Two A Level passes, including one at grade C or above which should be in a Life Science	MMP	P + 6 units at Merit or above	MM	M	A satisfactory pass in a relevant Access course with 45 credits at Level 3	Appropriate IB Certificates considered

Plus GCSE Maths and English at grade C or above or Level 2 Functional Skills in Maths and English

Validated by





FdSc (Foundation Degree) Veterinary Nursing Science

Why choose this degree?

- Three year full-time programme includes LANTRA Veterinary Nursing Occupational Standards
- Combine 60 weeks of work placements with college study to gain practical skills and underpinning theory
- Gain realistic experience in our purpose built Veterinary Nursing Centre equipped to represent a contemporary veterinary practice
- Excellent rate of graduate employment

What will I learn?

The programme has a firm science foundation, including the specialist nursing, behaviour and research skills needed to develop industry-relevant knowledge. You will also gain valuable industry insight through visits, guest speakers and work placements.

Three years full-time

.....
UCAS code: D311
.....

Course Tutors

Mandy Tamba BSc (Hons), RVN Cert Ed,
Cert SAN, D32 V1, FHEA

Emma Skirrow BSc (Hons), RVN Cert Ed, FHEA

You will learn through a combination of lectures, laboratory sessions, practical work in veterinary practice along with guided and independent work. You will have the opportunity (subject to demand) to participate in animal training and behaviour, large animal handling and a dangerous wild animal handling certificated course.

How will I be assessed?

Assessment is through a combination of coursework - including laboratory investigations, assignments and presentations - and, for the elements of the Professional Syllabus, closed book examinations. Whilst on placement you will also complete a Nursing Progress Log to evidence practical competencies.

Where can I go from here?

After successfully completing the course and 60 weeks work placement, you can register as a Veterinary Nurse (subject to 'fitness to practice' guidelines of the RCVS). You could also continue study on the final year of a relevant BSc (Hons) programme such as the BSc (Hons) Animal Management, BSc (Hons) Applied Animal Behaviour or BSc (Hons) Zoo Biology Top-ups offered at Sparsholt.

Sparsholt graduates are employed in small animal practice, equine practice and referral hospitals and have the skills needed to work in research, the pharmaceutical industry, laboratories, zoological/wildlife parks and in education.

Units covered

Level Four

- Functional Anatomy
- Analytical and Diagnostic Techniques
- Animal Husbandry, Inheritance and Disease
- Practice Organisation and Personal Development Planning
- Principles of Veterinary Nursing
- Veterinary Nursing Work Practice

Level Five

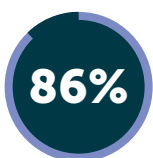
- Surgical Theatre Practice and Anaesthesia
- Applied Industrial Research
- Diagnostic Imaging
- Application of Veterinary Nursing Care
- Pharmacology
- Animal Behaviour
- Recent Advances in Animal Health
- Veterinary Nursing Work Practice

Entry requirements:

A Level	BTEC Ext. Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
Three A Level passes, including two at grade C or above one of which should be in a Life Science	DMM	M + 6 units at Distinction	N/A	N/A	A Merit profile in a relevant Access course with 45 credits at Level 3	25 points with HL Biology at 5 Good grades in MYP English, Maths, and Science

Plus five GCSEs at C or above, including Maths, English and Science

Two weeks work experience in a Veterinary Surgery



overall satisfaction with Animal Management and Veterinary Nursing courses (NSS 2014)

Validated by



Faculty of Ecology and Conservation Management

Head of Faculty:

Caroline James MSc, PGCE, BSc (Hons)

COURSES

BSc (Hons)

Ecology and Conservation Management

Three years full-time

Top-up: one year full-time

FdSc

Ecology and Conservation Management

Two years full-time



We do a lot of practicals and the lecturers' knowledge and enthusiasm is incredible, I don't think you'd get the same commitment anywhere else.





of students are satisfied with
the quality of learning resources
(NSS 2014)



RESEARCH

Sparsholt College's Ecology and Conservation students benefit from excellent resources and staff who are highly knowledgeable and ensure applied conservation skills are acquired.

On-site facilities include managed ancient woodland, restored chalk grassland, lake and reedbed habitats, and farmed land under environmental stewardship schemes. Species ID and survey work is a key element of the course.

Recent Research – BSc (Hons) Ecology and Conservation Management:

- Salinity tolerance in dog whelks
- The effect of shading on riverine invertebrates
- Invertebrates in urban habitats
- Habitat preference in tropical forest hornbills
- Spider abundance and distribution in hedgerows
- Nest site selection in barn owls
- Distribution of woodland invertebrates in grazed and ungrazed woodland plots
- Habitat use by small mammals in coppices
- Habitat use of water voles in distribution to grazing pressure
- Visitor disturbance and public attitudes on bird reserves
- Bird faunas of woodland in relation to understory habitat
- Spatial utilisation of enclosures by captive Nicobar pigeons
- Spatial utilisation of enclosures by captive binturongs
- Adder habitat use and site connectivity
- Feeding preferences of garden birds at feeders



Sparsholt has allowed me to follow my passion for wildlife and conservation by retraining. The knowledge and experience I've gained will allow me to easily move into industry.



Ruth Holland

Current BSc (Hons) Ecology and Conservation Management Student

I wanted to retrain and start a new career in Ecology, which would allow me to follow my passion for wildlife and conservation. I found out about Sparsholt's undergraduate courses when I brought my son to an open day (he is now studying Animal Management at Sparsholt).

The best thing about my course at Sparsholt is how relevant and focused the course content is. We do a lot of practicals and the lecturers' knowledge and enthusiasm is infectious. I chose to study at Sparsholt because of its reputation, the units the course covers and the practical elements.

INDUSTRY LINKS

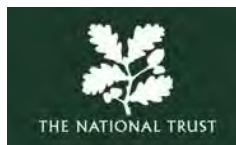
Sparsholt College has run specialist Ecology, Conservation and Wildlife Management courses since 1973 and has developed an enviable reputation for our work. The faculty has close working links with many of the major wildlife and conservation organisations and is recognised as a leading land-based college in this field.

Our faculty's staff all have practical experience and qualifications relevant to their particular specialism as well as staying actively involved in the study and management of ecology, wildlife, conservation, game and the countryside.

The College has also established close links with a range of landowners throughout the country and has unprecedented access to a wide variety of sites, so that students can experience a diversity of wildlife and habitats, and their management first-hand. Site visits and talks given by visiting speakers with specific expertise are integrated into our courses.

We work with organisations such as:

- Natural England
- Hampshire County Council
- Ecology & Countryside Service
- Game & Wildlife Conservation Trust
- The National Trust
- The Wildlife Trusts



OUTSTANDING FACILITIES

College Farm Estate

- 176-hectare estate
- Conservation management plan and Entry Level Stewardship scheme
- Access to additional 100 hectares which has been entered into the Higher Level Stewardship scheme
- Managed rural environment including an ancient semi-natural woodland designated as a Site of Importance for Nature Conservation
- Park herd of Sika deer
- Woodland shelter belt with newly established woodland and recreated semi-natural grassland
- Lake with reed-bed
- On-site renewable technologies such as anaerobic digester and a wind turbine - due to be completed 2016/17



SPOTLIGHT ON...

Matthew Norris-Hill PGCE, BSc (Hons) (HE Curriculum Leader)

Areas of Teaching Expertise

Ecology and Management of Habitats (with a particular interest in the farmed environment and associated species), Species Identification, Legislation and Policies

About Me

Before joining Sparsholt College I worked in Wildlife Management and Agriculture, including roles for the National Trust and the Farming and Wildlife Advisory Group. I also work extensively in the industry and am involved with the South East Farming and Wildlife Advisory Group Association as an Independent Farm Conservation Consultant. There are a number of other roles that I currently hold including External Examiner at Plymouth University, Duchy College and LANTRA Environmental Conservation and Game and Wildlife Industry Panels. I am currently studying for an MSc in Environmental Management at Birkbeck University of London.

Recent Activities

- Member of the South East Farming and Wildlife Advisory Group Association
- External Examiner Plymouth University – Duchy College
- Member of LANTRA Environmental Conservation and Game and Wildlife Industry Panels
- Independent Farm Conservation Consultant – Advice, Farm Conservation Management Plans and Grant Applications
- Author of units for Edexcel Countryside Management Levels 3, 4 and 5

MEET OUR EXPERTS

Dr Des Purdy

PhD, PGCE, BSc (Hons)



My area of teaching expertise is species and habitat conservation, landscape ecology and population genetics, microbiology, game management. I hold a PhD, BSc and a PGCE and have been involved in a number of research projects with Thames Water Utilities and the Health Protection Agency/Royal Free Hospital. I have links with Natural England, The Forestry Commission, Game and Wildlife Conservation Trust and private estates across the country.

Andrew Quayle

PGCE, BSc (Hons)



I am a lifelong conservationist and field naturalist, with a specialist interest in reptiles and amphibians. I have worked as a Research Technician in vertebrate and bacterial genetics at The University of Leicester, Conservation Officer for Leicestershire and Rutland Wildlife Trust and in commercial consultancy as an ecologist. I also hold a BSc Honours in Zoology from The University of Manchester.

Martin Edwards

MBA, PGCE, BSc



I am from a farming/gamekeeping background and I studied Agricultural and Environmental Science at Newcastle University. I have always enjoyed data analysis and information technology and I teach units that utilise this interest, including Applied Industrial Research and Project Design and Research Statistics. I have also developed the Geographical Information Systems element of the course and teach the use of ArcMap in the third year of the degree programme.

Dr Lucy Crooks

PhD, BSc (Hons), FHEA



My undergraduate degree in Marine Biology enhanced my passion for the marine environment. I studied for my PhD at the University of Portsmouth and I worked on a DEFRA funded research project looking at the effects of agricultural pollution on the early life stages of salmonids. My research activities and projects provide good links with CEFAS and the EA.

BSc (Hons) Ecology and Conservation Management

Why choose this degree?

- Excellent reputation, close links with landowners and unprecedented access to a wide variety of sites
- Learn on the 176-hectare College estate with conservation management plan, entry and higher level stewardship schemes and a varied managed rural environment
- Develop ecological expertise through research, surveying and data collection, and conservation management planning

What will I learn?

The course applies a scientific approach to natural resource management, conservation and sustainability, with an overall theme of applied ecological science. You will develop the skills to analyse and monitor a range of diverse ecosystems in the field and design and effectively implement management plans.

How will I be assessed?

Both formative assessments - allowing you to develop research and study skills as well as technical and expert knowledge - and summative assessment feature in this programme. Summative assessments include written assignments, presentations, project and lab reports, practical based portfolios and open and closed examinations.

Where can I go from here?

You can progress onto postgraduate study or use your skills to run your own business. Sparsholt graduates now hold positions in site management and consultancy, with government bodies such as Natural England and with NGOs.

Three years full-time

One year BSc Top-up
also available

UCAS code: C185

Course Tutors

Matthew Norris-Hill PGCE, BSc (Hons)

Andrew Quayle PGCE, BSc (Hons)

Dr Des Purdy PhD, PGCE, BSc (Hons)

Units covered

Level Four

- Global Ecosystems
- Science Foundations
- Conservation Work Practice
- Habitat and Species Identification Skills
- Introduction to Ecological Science
- Academic Skills

Level Five

- Land Use Policies and Legislations
- Applied Practical Skills
- Project Design and Research Statistics
- Conservation Land Management
- Applied Ecology
- Field Ecology Techniques

Level Six

- Dissertation and Data Analysis
- Landscape Ecology and Geographic Information Systems
- Sustainable Resource Management
- Project and Site Management
- Global Biodiversity and Conservation Issues



Sparsholt gave me the practical skills and confidence to talk to people, and the knowledge and skills to really prepare me for the Conservation sector.



Entry requirements:

A Level	BTEC Ext. Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
Three A Level passes, including two at grade C or above one of which should be in a Science	DMM	M + 6 units at Distinction	N/A	N/A	A Merit profile in a relevant Access course with 45 credits at Level 3	24 points with HL Science at 4

GCSE Maths and English at grade C or above or Level 2 Functional Skills in Maths and English

Validated by



FdSc (Foundation Degree) Ecology and Conservation Management

Why choose this degree?

- Gain the skills the industry needs - both academic and practical - through work-related learning
- Expert lecturers with local and national links sharing vital industry contacts
- Choose to progress onto a BSc Top-up course to continue your studies after successful completion

What will I learn?

The programme brings a scientific approach to the management of plant and animal communities. You will explore legislative, financial and planning processes to gain a truly integrated understanding of conservation management.

Our strong links with landowners mean you will enjoy access to a wide range of sites as well as the College's own excellent resources.

Work-related learning is key, so you will also gain practical experience and contacts with a variety of organisations.

How will I be assessed?

Both formative assessments - allowing you to develop research and study skills as well as technical and expert knowledge- and summative assessment feature in this programme.

Summative assessments include written assignments, presentations, project and lab reports, practical based portfolios and open and closed examinations.

Two years full-time

UCAS code: C18M

Course Tutors

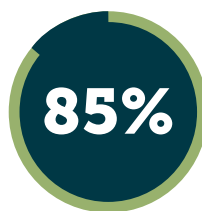
Matthew Norris-Hill PGCE, BSc (Hons)

Andrew Quayle PGCE, BSc (Hons)

Dr Des Purdy PhD, BSc (Hons), PGCE

Where can I go from here?

You can continue your studies with our BSc (Hons) Top-up programme, or enter industry. Many of our graduates use their skills to start a business or to work in site management or consultancy with NGOs or government bodies such as Natural England.



of students are satisfied with the
level of personal development
(NSS 2014)



Units covered

Level Four

- Global Ecosystems
- Fundamentals in Science
- Conservation Work Practice
- Habitat and Species Identification Skills
- Academic Skills
- Introductory Land-based Ecology

Level Five

- Countryside Law and Policies
- Applied Practical Skills
- Applied Industrial Research
- Conservation Land Management
- Applied Ecology
- Field Ecology Techniques

Entry requirements:

A Level	BTEC Ext. Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
Two A Level passes, including one at grade C or above one of which should be in a Science	MMP	P + 6 units at Merit or above	MM	M	A satisfactory pass in a relevant Access course with 45 credits at Level 3	Appropriate IB Certificates considered

GCSE Maths and English at grade C or above or Level 2 Functional Skills in Maths and English

Validated by



University of
Portsmouth

Faculty of Equine Performance Management

Head of Faculty:

Kathy Bamber PGCE, BA, BHS II (Reg'd)

COURSES

MSc

Equine Behaviour, Performance and Training

One year full-time or two years part-time

BSc (Hons)

Equestrian Performance Management

Three years full-time

Top-up: one year full-time

BSc (Hons)

Equine Science

Three years full-time

Top-up: one year full-time

FdSc

Equestrian Performance Management

Two years full-time



of students are satisfied with
the quality of learning resources
(NSS 2014)



Our staff are regularly called upon to present their research at conferences and events, as well as encouraging industry-relevant student research

Recent Research Titles –

The effect of rider weight on stride length and temperature of the horse's back – Anna Nicholas, Lorna Cameron and Sarah Loveday-Lovell

This study investigated the impact of rider weight ratio to horse weight on stride kinematics and under saddle temperature in the ridden horse. Varied rider – horse weight ratios were tested and findings suggested that a rider weight exceeding those tested was required to induce observable changes in stride kinematics.

Advancing Equine Science Excellence (AESE) Increasing participation in Equestrianism (IPIE) collaborative project – Hana Wilson, Sarah Nottingham, Lorna Cameron and Sarah Loveday-Lovell

As part of a nationwide project supported by the British Equestrian Federation (BEF) two students investigated barriers to participation in equestrian sports in a range of potential and lapsed riders. The findings have been included in a larger research project to be published in due course.

Is there a difference in pH levels within faecal matter between horses fed on hay and haylage? – Cameo Pike, Lorna Cameron, Natalie Stones and Katy Robson

Faecal pH was measured from a range of horses kept on a mixed system of overnight stabling and limited daytime grazing access with similar concentrate rations with forage provision of either hay or haylage. All horses had a similar workload, management system and daily routine, varying only in type of forage provided. Significant differences were observed in faecal pH between the groups.

Standing and riding asymmetry in the horse rider – Vicky Edge, Lorna Cameron and Katy Robson

A range of riders submitted to morphological and biomechanical measurements both on and off the horse. A significant association was established between standing, walking and riding asymmetry in the leisure rider.

Ongoing Collaborative Projects

Recent collaborative research includes a project with the Breast Health Research Group of the Department of Sport and Exercise Science at the University of Portsmouth. MSc students are investigating breast biomechanics in female horse riders, breast health issues in the general female riding population and muscle activation in the horse rider utilising the riding simulator at Quob Stables, Hampshire.

BSc (Hons) Equine Science student Leigh Niles was awarded the Dodson & Horrell Sparsholt Research Bursary and is investigating chewing and bite rates in novel forage blends utilising horses from the Sparsholt College Equine Centre.

BSc (Hons) Equine Studies student Emma Sluter has utilised her summer job at Meon Valley Stud to investigate training responses in Thoroughbred yearlings being prepared for sale, continuing an established research link.

FdSc students are involved in a project for STERI-7 investigating the effectiveness of different concentrations of disinfectant wash on bacterial proliferation in horse clothing.

For a third year, students are also involved in a nationwide project for Advancing Equine Scientific Excellence (AESE), a committee of the British Equestrian Federation (BEF). This year's study is the Equine End of Life (EEoL) project and is supported by World Horse Welfare (WHW) and The Donkey Sanctuary (TDS).

Cameo Pike

BSc (Hons) Equine Science graduate and current MSc Equine Behaviour, Performance and Training student

After finishing school, I knew A Levels wouldn't be suited to me and knowing I wanted to work in the equine industry, Sparsholt seemed perfect for me.

After a two year National Diploma in Horse Management, I couldn't wait to be an undergraduate student. After three brilliant years as a BSc (Hons) Equine Science student, when the Master's degree at Sparsholt was mentioned to me, I couldn't wait to start.

I knew I had much more to learn and wanted to continue with my education, so what better place to do so than Sparsholt. The MSc allows you to aim your learning in the individual direction or sector you are interested in; for me, nutrition is my main interest, whether this be in horses or livestock.

INDUSTRY LINKS

Sparsholt College combines the professional teaching environment of the BHS-approved Equine Centre with cutting-edge teaching resources and expert staff. The College's Equine team are all BHS qualified and have extensive industry experience. The centre has hosted equine leaders such as the Australian Paralympic Equestrian Team for their London 2012 pre-Olympic Games training and research by world famous equestrian expert Monty Roberts.

Our staff are regularly called upon to present their research at conferences and events, as well as encouraging industry-relevant student research, for example in conjunction with horse food manufacturers.

Sparsholt's Equine staff have impressive links throughout the industry, working with organisations such as:

- The British Horse Society (BHS)
- Dodson & Horrell
- British Dressage
- The British Equestrian Federation
- Robinsons
- The Jockey Club
- Newmarket Racecourse
- The National Stud
- Horse & Hound
- The International Society for Equitation Science
- The British Association of Sport and Exercise Sciences
- The British Society of Animal Science
- British Showjumping



The
British
Horse
Society



The National Stud



THE JOCKEY CLUB
Since 1750



BRITISH
EQUESTRIAN
FEDERATION



HORSE-HOUND



DODSON & HORRELL
LIMITED



NEW MARKET
RACECOURSE
THE HOME OF RACING



BASES
The British Association of
Sport and Exercise Sciences
Member



ISES
The International Society
for Equitation Science



INDUSTRY ASSOCIATION
bsas
british society of animal science

OUTSTANDING FACILITIES

Arenas and Riding

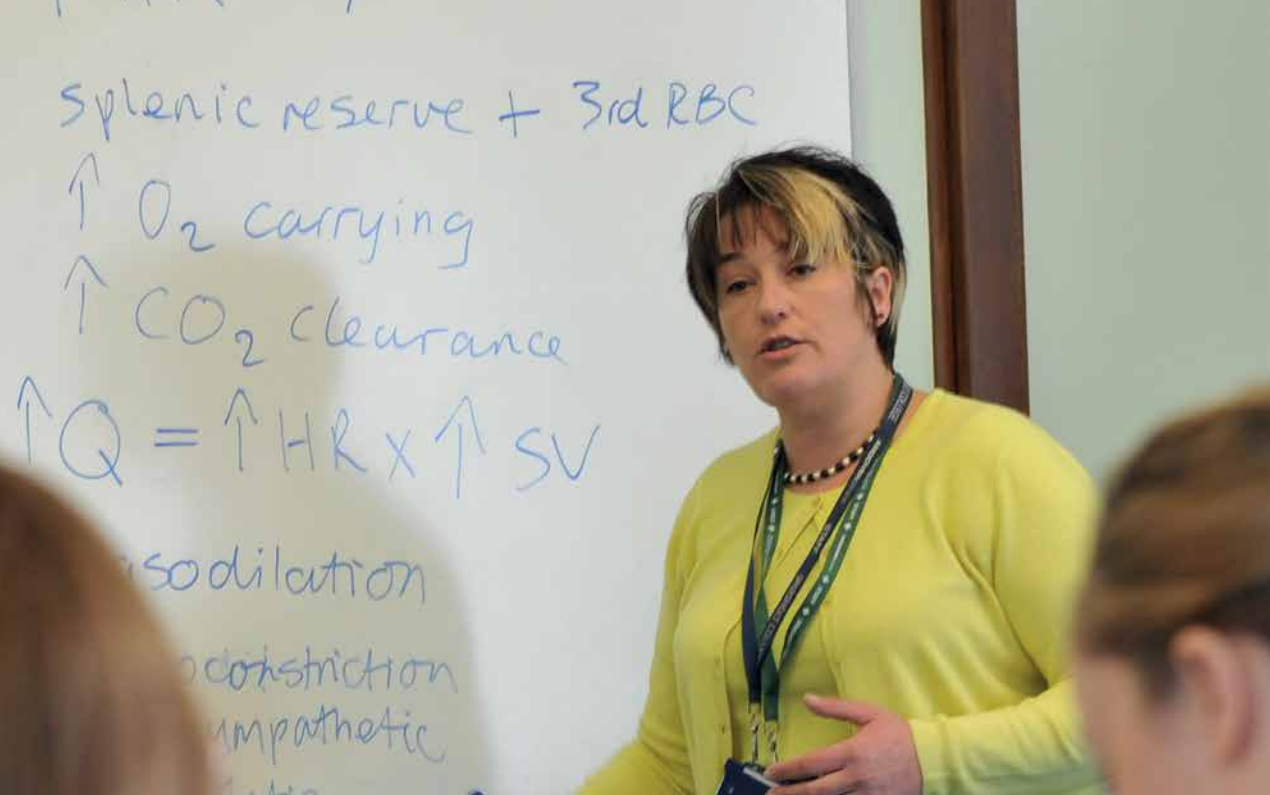
- 60m x 23m indoor arena
- Three outdoor arenas, the largest of which measures 70m x 50m with an Andrews Bowen ProWax surface from the London 2012 Olympics
- Attractive grass riding and jumping areas
- Cross-country training field

Superb Stabling

- Variety of stable styles housing up to 75 carefully selected horses
- DIY livery and summer grazing available for students' horses
- Covered horse walker
- Weighbridge

Resources for Research

- Full size equine skeleton
- Heart rate monitors
- ETB Pegasus Gaitsmart System
- High speed camera
- Fully-equipped laboratories, rein tension meters and Biometrics EMG analysis system



SPOTLIGHT ON...

Lorna Cameron MSc, PGCLTHE, PGCE, BA (Hons), BHS SM (Reg'd), QTLS, SFHEA
(HE Equine Lecturer/MSc Course Tutor)

Areas of Teaching Expertise

Competitive Dressage, Welfare of Horses

About Me

I spent 20 years as a competition groom and yard manager managing horses to World and Olympic level in showjumping, dressage and eventing. I achieved one of the first degrees in Equine Studies in the UK, the BHS Stable Manager's qualification, an MSc in Equine Science and am currently completing a PhD at the University of Portsmouth.

My areas of research interest focus mainly on the welfare of horses in varied situations and the effect of the economic climate on horse owners' welfare perceptions. My Master's thesis was to establish a link between pre-slaughter stress levels in horses transported live for slaughter and their carcass quality and my PhD study explored the rider-horse-coach triad in dressage and breast health and biomechanics in horse riders. I actively encourage students to submit their research to conferences - including the Alltech Equine Science Conference and The British Society of Animal Science Conference.

Recent Activities

- Publication - Cameron, L.J., Wagstaff, C. and Thelwell, R. (2014) Investigating stress and coping in the female dressage rider. *Journal of Sports Sciences* 32, 2: s87-s93.
- Publication - Cameron, L.J. & Rose, P.E. (2012) Equine industry perceptions of the possible impact of the current economic recession on equine welfare. *Animal Welfare* 21, 1: 170.
- Publication - Rose, P.E. & Cameron, L.J. (2012) Welfare integration into conservation biology: evaluation of enclosure suitability for endangered pheasants. *Animal Welfare* 21, 1: 185.

MEET OUR EXPERTS

Kathy Bamber

PGCE, BA, BHS II (Reg'd)



Horses have always been a passion of mine and following a break from horses whilst studying for my degree in Latin, I rediscovered this passion while travelling around Europe, the States and Central Africa. I returned to the UK to pursue an Equine career and attained my BHSII while working in the industry. During this time I competed British Showjumping up to Foxhunter and British Dressage up to Medium.

Sarah Loveday-Lovell

MBA, PGCE, PGCLTHE, BSc (Hons), FHEA, MifL, BHSII (Reg'd)



I have an MBA at the University of Southampton, a PGCE in Learning and Teaching in Higher Education and a PGCE with The University of Greenwich. My specialist interests are marketing and celebrity endorsement; which was the basis for my dissertation. I am a qualified BHS Intermediate Instructor and I compete regularly at regional, championship and national levels with my KWPN dressage horse.

Katy Robson

MSc, PGDip, PGCE, BSc (Hons), FHEA, MifL, QTLS



I was in the Army for 10 years prior to joining Sparsholt but have always had a keen interest in horses and equine science, owning and competing my own horse. I have a BSc in Health Science, and an MSc in Equine Science as well as my BHS Stage 3. My particular areas of interest are behaviour and welfare, nutrition and behaviour, grassland science and management.

97%

of equine students satisfied with
the quality of teaching
(NSS 2014)

MSc Equine Behaviour, Performance and Training

Why choose this degree?

- Excellent facilities, expert teaching, strong links with industry and small class sizes
- Take your Equine knowledge to the next level with this specialist postgraduate programme
- Develop research expertise relevant to industry using extensive laboratory, performance analysis and BHS-approved Equine Centre facilities

What will I learn?

M Level units are delivered by tutors qualified at postgraduate level in relevant subjects, many of whom have a strong British Horse Society (BHS) and performance horse background, most being research active.

The research project enables you to undertake a detailed experimental study in a chosen area to develop analytical research skills with the support of dedicated supervisors. Interpretation and critical evaluation of current research findings will enable you to further develop links between the equestrian industry and the equine scientific community.

How will I be assessed?

Units are assessed by a mix of coursework, practical assessments, exams, case studies and project work. Emphasis is placed on the development of critical evaluation and research skills with the use of formative assessments throughout the programme of study.

Developmental feedback will enable you to widen the range of your academic skills as you progress through the programme.

One year full-time or
two years part-time

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Please visit sparsholt.ac.uk to
download an application form
.....

Course Tutor

Lorna Cameron MSc, PGCLTHE, PGCE,
BA (Hons), BHSSM (Reg'd), QTLS, SFHEA

Where can I go from here?

Masters' graduates could progress to a career in lecturing, equestrian training, research support, equestrian journalism and performance analysis or alternatively you may choose to progress to study at doctorate level.

Units covered

- Equestrian Training
- Equestrian Performance
- Applied Animal Behaviour Science
- Research Methods
- Dissertation

Entry requirements:

BSc (Hons) in a Science-related programme at 2:2 or above

Validated by





91%

of equine students are satisfied with the quality of learning resources (NSS 2014)

BSc (Hons) Equestrian Performance Management

Why choose this degree?

- Be taught by leading industry experts in outstanding on-site facilities
- Tailor your learning to your interests and career goals with optional units and dissertation at level six
- Broaden your horizons with an international study tour
- Full-time top-up programme also available

What will I learn?

The programme is designed to prepare you for a career in the exciting and demanding equine industry. Using the outstanding facilities of the BHS-approved Equine Centre, you will develop the vital skills needed - from riding and husbandry at level four to research and analysis at level six.

You will experience hosting an inter-college event, as well as being involved in scientific projects and completing a work placement of one month. A full range of off-site visits to studs, sports horse centres and competition grounds, plus guest speakers in nutrition, physiotherapy and other subjects give yet more industry insight.

How will I be assessed?

Tutorial support throughout your programme of study will help you to develop your skills and knowledge, using a varied range of assessments, including exams, case studies, seminars, investigative reports and practical sessions.

Three years full-time

One year full-time
Top-up also available

.....
UCAS code: D322
.....

Course Tutor

Katy Robson MSc, PGDip, PGCE, BSc (Hons),
FHEA, MIFL, QTLS

Where can I go from here?

You can progress to further study on the MSc in Equine Behaviour, Performance and Training or another MSc, MA or PhD programme. Sparsholt College graduates enjoy a range of careers in teaching, livery centres, polo yards, racing and studs, including competition rider, groom, riding instructor, stud worker and stable manager.

Units covered

Level Four

- Equine Anatomy and Physiology
- The Equine Industry
- Academic Skills
- Work Placement
- Equitation and Husbandry
- Principles in Biology



Level Five

- Breeding and Stud Management
- Equine Health and Welfare
- Coaching Methods
- Equine Business Administration
- Grassland Science and Management
- Nutrition and Dietetics
- Research Methods and Analytical Techniques

Level Six

- Dissertation
- Equine Biomechanics and Sports Science
- Equine Therapy and Rehabilitation
- Strategic Marketing
- Data Analysis
- Equine Genetics and Reproductive Technologies
- Applied Nutrition
- Leisure and Event Management

Entry requirements:

A Level	BTEC Extended Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
240 UCAS points gained at A Level, including a minimum of two grade Cs	DMM	M + 6 units at Distinction	DD	D	A Merit profile in a relevant Access course with 45 credits at Level 3	24 points with HL Science at 4

Validated by



BSc (Hons) Equine Science

Why choose this degree?

- Gain the scientific skills and knowledge needed for a career in scientific support and management of the performance horse
- Be taught by leading industry experts in outstanding on-site facilities
- Tailor your learning to your interests and career goals with optional units and dissertation at level six

What will I learn?

The programme is designed to prepare you for a career in scientific support and management of the performance horse. You will use the outstanding facilities of the BHS-approved Equine Centre as well as fully-equipped laboratories to develop the vital skills needed. At level six, optional units enable you to choose the study path that suits your career aims, with equine science subjects such as Equine Exercise Physiology and Equine Genetics and Reproductive Technologies on offer.

You will complete a one-month work placement. A full range of off-site visits to studs, sports horse centres and veterinary centres, plus guest speakers in nutrition, physiotherapy, genetics, exercise science and other subjects give yet more industry insight.

How will I be assessed?

Tutorial support throughout your programme of study will help you to develop your skills and knowledge, using a varied range of assessments, including case studies, seminars, investigative reports and practical sessions.

Three years full-time

One year full-time
Top-up also available

UCAS code: D426

Course Tutor

Lorna Cameron MSc, PGCLTHE, PGCE,
BA (Hons), BHSSM (Reg'd), QTLS, SFHEA

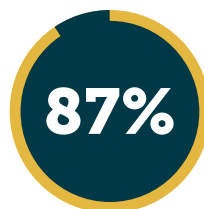
Where can I go from here?

You can progress to further study on the MSc in Equine Behaviour, Performance and Training or another MSc, MA or PhD programme. Sparsholt College graduates enjoy a range of careers in teaching, racing and performance studs.

Units covered

Level Four

- Equine Anatomy and Physiology
- The Equine Industry
- Academic Skills
- Work Placement
- Equitation and Husbandry
- Principles in Biology



of overall student satisfaction
with Equine courses (NSS 2014)



Level Five

- Advanced Equine Anatomy and Physiology
- Nutrition and Dietetics
- Research Methods and Analytical Techniques
- Rider Performance
- Equine Health and Welfare
- Breeding and Stud Management

Level Six

- Dissertation
- Equine Veterinary Science
- Equine Genetics and Reproductive Technologies
- Data Analysis
- Equine Exercise Physiology
- Equine Therapy and Rehabilitation
- Equine Biomechanics and Sports Science
- Applied Nutrition

Entry requirements:

A Level	BTEC Extended Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
240 UCAS points gained at A Level, including a minimum of two grade Cs	DMM	M + 6 units at Distinction	DD	D	A Merit profile in a relevant Access course with 45 credits at Level 3	24 points with HL Science at 4

Validated by



FdSc (Foundation Degree) Equestrian Performance Management

Why choose this degree?

- Benefit from work experience at all course stages
- Progress to BSc Top-up at Sparsholt after successfully completing the course
- Get hands-on with research projects, events and shows as well as an international study tour

Two years full-time

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UCAS code: D422
.....

Course Tutor

Sarah Loveday-Lovell MBA, PGCE, PGCLTHE,
BSc (Hons), FHEA, MIFL, BHSII (Reg'd)



What will I learn?

This course has been carefully designed to help you build strong practical skills alongside applied knowledge to maximise your employability. This practical emphasis is reflected in the course content, with units in equitation, husbandry and training, while other units focus on your applied scientific knowledge and business skills. Using all the resources of our flagship Equine Centre, you will experience riding, running events and shows and completing assignments and research projects. Research projects focus on the management of a commercial sized centre, while external study visits and an international study tour increase industry exposure. Work placements throughout the course complete the picture.

How will I be assessed?

Tutorial support throughout the study will help you to develop your skills and knowledge, using a varied range of assessments, including case studies, seminars and investigative reports with a range of practical sessions.

Where can I go from here?

Many FdSc graduates choose to join the BSc Top-up programme (in 2016/17 and 2017/18 this is BSc Equine Studies and in 2018/19 this will become BSc Equestrian Performance Management). Sparsholt College graduates enjoy a range of careers in teaching, livery centres, polo yards, racing and studs, including competition rider, groom, riding instructor, stud worker and stable manager.



When I finished school I knew I wanted to work in the equine industry so Sparsholt was perfect for me. I didn't feel I'd get the hands on experience as well as the research expertise anywhere else.



Units covered

Level Four

- Equine Anatomy and Physiology
- The Equine Industry
- Industry Skills
- Work Placement
- Equitation and Husbandry
- Principles in Biology
- Academic Skills

Level Five

- Equitation and Training
- Applied Industry Research
- Nutrition and Dietetics
- Work Placement 2
- Equine Health and Welfare
- Equine Business Administration
- Breeding and Stud Management

Entry requirements:

A Level	BTEC Extended Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
160 UCAS points gained at A Level, including a minimum of a grade C	MMP	P + 6 units at Merit or above	MM	M	A satisfactory pass in a relevant Access course with 45 credits at Level 3	Appropriate IB Certificates considered

Validated by



Faculty of Fisheries, Aquaculture and Marine Studies

Head of Faculty:

Caroline James MSc, PGCE, BSc (Hons)

COURSES

MSc

Applied Aquaculture and Sports Fisheries

One year full-time or two years part-time

BSc (Hons)

Aquaculture and Fishery Management

Three years full-time

Top-up: one year full-time

FdSc

Sports Fisheries and Aquaculture

Two years full-time

FdSc

Marine Ecology and Conservation

Two years full-time



RESEARCH

Our lecturing staff are known to be the experts in the industry and can often be found at conferences and industry forums discussing the latest techniques and their supporting research.

Students gain real industry experience on and off-site that is underpinned by the high level of technical lecture content to prepare them for a range of careers or progression to courses at Master's level. Their collaborative research and dissertation topics reflect many diverse and current industry issues.

Recent Research Titles –

- **The effect of weed cutting on the invertebrate population in a chalk stream**
- **An investigation into the effects of pharmaceutical drugs on Gammarus**
- **A comparison of the effectiveness of different net disinfection methods**
- **The effect of dietary fat level and source on the taste and carcass quality of rainbow trout**
- **An investigation into the use of HF60 fish protein hydrolysate as a feed ingredient for carp**
- **A comparison of fungal treatments on Aspergillus**
- **An investigation into the effects of varying ammonia and nitrite concentrations on bio-filter maturation**

Fish feed trials with a range of manufacturers supplying the salmon and trout industry have also explored a range of areas, such as the inclusion of vegetable protein vs. fish meal, comparison with industry competitors, ration rates, palatability and taste and carcass quality. One trial with fish feed producer Skretting attracted £6,000 sponsorship after Sparsholt students undertook successful research for the feed company at the College's nationally renowned Salmonid Rearing and Trials Centre. As a reward the group will fly to the stunningly picturesque north west Spain, with visits to fish and shellfish farms which are totally different to UK operations.

The Aquatics industry is a huge market and research and trials are regularly conducted on new products in conjunction with a range of manufacturers. Recent research has featured filter developments, lighting and aquarium set-up and design, and trials are currently underway on a new disinfectant prior to its release onto the market.

Ongoing Collaborative Projects

Sparsholt students work in conjunction with The National Trust at Mottisfont to conduct an annual survey to assess the impact of habitat management on diversity of fish stocks. Now in its seventh year this is producing one of the largest and most unique sets of data available in England.

A survey has also been undertaken with Portsmouth Services Fly Fishing Association to assess the impact of river restocking and population migration. All brown trout stocked into the River Meon by PSFFA are marked to enable identification on capture. Working with the anglers on the river it is possible to track the movement of fish after they have been introduced to the river.

Two industry contacts are combined in an annual feed trial carried out on behalf of Coppens and Hampshire Carp Hatcheries to look at the efficacy of particular feed formulations. This research has previously studied goldfish nutrition, high specification diets on mirror carp production and the inclusion of distiller's wheat pellets on carp growth rates.

STUDENT VIEW

Barry Goodhew

Previous BSc Aquaculture and Fishery Management Student
Current Position: Fisheries and Conservation Officer

As a mature student coming from the Infantry, Sparsholt provided me with the practical and theoretical knowledge I needed to change direction into the position I hold now. I chose Sparsholt as it was recognised as a good place to study fisheries.

I really enjoyed the practical side of the course as I was able to put the skills that I'd learnt about in the classroom into action. You can't teach Fisheries in the lecture theatre – you need to be outside to understand the practical side of things. The lecturers were excellent – very knowledgeable and with extensive experience of working in the industry. Sparsholt's facilities are first rate, everything was there you could wish for and it couldn't have been better.

I'm now a Fisheries and Conservation Officer; one of four officers looking after the coast between Rye, in East Sussex, and Chichester. We work under the Marine and Coastal Access Act, managing the UK's inshore fisheries within six nautical miles of the coast. So my days are varied – either spent at sea boarding fishing vessels to inspect the fish and landing gear to make sure they're meeting the minimum landing size, or working on land visiting fishmongers and fish processors to check the fish they're selling are legal. All our work is intelligence based so we do a lot of research - such as working in partnership with Chichester Harbour on an oyster project - and we collect data and undertake surveys to help maintain the biodiversity of the area and safeguard the marine conservation zones.

INDUSTRY LINKS

Sparsholt College has extensive and enviable links with the fishery and aquaculture industries regionally, nationally and internationally.

Staff members, when not teaching, spend time developing and refreshing their industry knowledge by attending conferences, conducting research and taking part in a range of trials.

As well as developing knowledge and conducting research, Sparsholt fish and aquaculture staff are often called on as the known experts in the field.

They speak at industry events and conferences on subjects such as 'The impact of low oxygen on fisheries' and 'Larval fish nutrition'.

The industry links our staff have are exceptional as we work with organisations such as:

- British and Irish Association of Zoos and Aquariums (BIAZA)
- British Zebrafish Association
- Institute of Marine Sciences at the University of Portsmouth
- British Trout Association
- Institute of Fishery Management
- Ornamental Aquatic Trade Association (OATA)
- Department for Environment, Food and Rural Affairs (DEFRA)
- Centre for Environment, Fisheries and Aquaculture Science (CEFAS)
- KwaZulu-Natal Sharks Board
- Environment Agency
- Carp TV



UNRIVALLED FACILITIES

College Lake

- One hectare lake
- Fed by water from Sparsholt Salmonid Centre
- Stocked with carp, roach, rudd, bream, crucian carp, tench and perch
- Used by students as part of the course and recreationally

Nationally renowned Salmonid Rearing and Trials Centre

- £500,000 investment
- Students experience commercial salmonid production
- Produces brown trout for restocking local rivers and rainbow trout for the table
- Research and development facility used by a number of large European fish food manufacturers
- Students carry out research to fund European study tour

Unique National Aquatics Training Centre

- Only one of its kind in the UK
- Unique teaching facility
- 650m² purpose-built fish house
- Holds stocks of carp, catfish, tilapia, barramundi and an extensive range of ornamental species
- Indoor koi pool
- Research areas
- Up-to-date holding systems
- Marine habitats that replicate a range of global ecosystems

93%

overall satisfaction with the courses (NSS 2014)



SPOTLIGHT ON...

Adrian Love MSc, PGCE, BSc (Hons), FHEA (HE Fish Lecturer)

Areas of Teaching Expertise

Fish Biology, Aquaculture, Water Quality

About Me

I have worked in fish culture in South East Asia and Africa. I am currently studying for a PhD in the impact of pharmaceuticals on river invertebrates. I am particularly interested in what makes fish 'tick' – their diversity and physiology. I work closely with a range of leaders in the aquatics industry – including Aquarian, Tetra, Interpet, Hagen and JBL – developing trials and exploring ways that they can support and enrich the students and courses.

Recent Activities

- Presentation at the Coarse Fish Conference – *'The impact of low oxygen on fisheries'*
- Presentation at BIAZA (British and Irish Association of Zoos and Aquaria) Herptology Conference – *'The management of filtration systems'*
- Presentation for the British Zebrafish Association – *'Larval fish nutrition'*
- Currently editing a book on aquarium management.

MEET OUR EXPERTS

Caroline James

MSc, PGCE, BSc (Hons)



I started my career in a multi-national agri-business and now my passion lies in preparing students for employment in the land-based industries. I am involved with industry bodies such as the Environment Agency, British Trout Association, Institute of Fisheries Management and OATA and I have recently completed an MSc.

George Hide

MSc, PGCE, BSc (Hons), FHEA



I was an undergraduate at Swansea University and a postgraduate at Plymouth University where I completed an MSc in Applied Fish Biology. My industry background is with salmon and trout farming, having worked for a large multinational salmon producer in Scotland, with brief spells in Canada and Chile. At Sparsholt, I maintain extensive contacts with the UK aquaculture industry, in particular with commercial feed manufacturers.

I manage Sparsholt's fish trial facilities and I am involved in collaborative research into commercial salmonid, coarse and ornamental fish diets. I also teach the Aquaculture Unit on the MSc in Applied Aquatic Biology at The University of Portsmouth.

Dr Nick Beevers

PhD, MRes, BSc (Hons)



From my initial research into fish diseases at Cefas to my post-doctoral studies, I have over ten years experience of studying the ecology, physiology and diseases of fish and crustaceans. My study species have included salmon, brown trout, carp and lobsters and my work has involved partnerships with a range of industries and organisations.

My PhD research focused on disease in Norway lobster and I also hold an MRes in Applied Fish Biology and a BSc (Hons) in Fisheries Science. My recent projects range from testing experimental fishing gears and how these affect commercial catches to designing a survey of Scottish inshore fish populations.

Dr Lucy Crooks

PhD, BSc (Hons), FHEA



My undergraduate degree in Marine Biology enhanced my passion for the marine environment. I studied for my PhD at the University of Portsmouth and I worked on a DEFRA funded research project looking at the effects of agricultural pollution on the early life stages of salmonids. My research activities and projects provide good links with CEFAS and the Environment Agency.

MSc Applied Aquaculture and Sports Fisheries

Why choose this degree?

- Taught by industry experts who are research active and have strong national and international links
- Benefit from the on-site husbandry, rearing and extensive research facilities of the Salmonid Rearing and Trials Centre and the National Aquatics Training Centre
- Enjoy excellent access to exclusive sports fisheries in southern England as well as on-site fishery and stocks of sports fish

What will I learn?

Building on a strong science foundation, the course is designed to expand your knowledge of the husbandry and rearing of many global aquaculture species and refine your research techniques in applied aquaculture, sports fisheries and sustainable fisheries management.

In addition to traditional lectures and seminars, units are delivered using the practical resources of our National Aquatic Training Centre, the only teaching facility of its kind in the UK, Salmonid Rearing and Trials Centre and College fishery, industry specific software and databases, conference attendance, guest speakers and off-site visits. Links are encouraged to external organisations, commercial companies and collaborative research projects.

How will I be assessed?

Units are assessed by a mixture of coursework including posters, presentations and written assignments plus an original dissertation requiring independent research and formal write-up. You will be encouraged to submit written papers for publication in appropriate industry related journals.

One year full-time or two years part-time

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Please visit sparsholt.ac.uk to download an application form

.....
Course Tutor
Dr Nick Beevers PhD, MRes, BSc (Hons)

Where can I go from here?

Typical employment destinations include technical roles in aquaculture, sport fishery consultants, government fishery scientists for organisations such as Cefas and the Environment Agency. Alternatively you may choose to continue with doctorate research.

Units covered

- Applied Aquaculture
- Sports Fishery Management
- Sustainable Fisheries Management
- Research Toolkit
- Research Project

Entry requirements:

BSc (Hons) in a Science-related programme at 2:2 or above

Validated by





“

I've always wanted to come to Sparsholt as it is the most renowned establishment for fisheries courses.

”



BSc (Hons) Aquaculture and Fishery Management

Why choose this degree?

- One course that will develop you from introductory level in year 1 through to independent research and application in year 3
- Gain a wide range of practical experience and knowledge in subjects such as fish anatomy and physiology, business and environmental management and aquaculture
- Take part in work placements in places such as Fiji, South Africa or closer to home in Scotland
- Be taught by leading industry experts in unrivalled on-site facilities

What will I learn?

The programme combines scientific, managerial and practical skills that are developed in a range of subjects such as water quality, fish anatomy and physiology, fishery management and ecology, aquaculture, fish health and nutrition, business and environmental management.

Three years full-time

One year full-time Top-up also available

.....

UCAS code: D480

.....

Course Tutors
George Hide MSc, PGCE, BSc (Hons), FHEA
Dr Nick Beevers PhD, MRes, BSc (Hons)
Adrian Love MSc, PGCE, BSc (Hons), FHEA

During the course there are also extensive periods of work experience. Recent placements have included carp fisheries in Spain and France, salmon farms in Tasmania and New Zealand, goldfish farm in the United States, Royal aquariums in the Middle East, research into

ornamental fish welfare in the Philippines, Coral Cay Conservation in Fiji and research for the Natal Shark Board in South Africa.

Closer to home the College has excellent links with potential placement destinations including public aquariums, coarse and game fisheries, government fishery laboratories and numerous fish farms.

How will I be assessed?

Assessment at level four and five is primarily by exams and coursework which includes practical portfolios, laboratory reports, case studies and essay style assignments. At level six there is a greater emphasis on group projects and independent research.

Where can I go from here?

You can progress to the MSc in Applied Aquaculture and Sport Fisheries at Sparsholt; alternatively there are many MSc and PhD programmes available at other universities.

Sparsholt graduates now work as aquatic and fishery management consultants, in specialist angling publications, tackle and bait manufacturers, public aquaria, fisheries enforcement and product development, as lab and research technicians, in education and teaching and as fish farmers and fishery managers.

Units covered

Level Four

- Fishery Science
- Water Quality
- Industry Skills
- Fishery Management
- Salmonid Farming
- Academic Skills including IT

Level Five

- Fish Health and Nutrition
- Aquaculture Systems
- Marine and Warmwater Fish Farming
- Fishery Appraisal
- Financial Studies
- Data Analysis

Level Six

- Applied Fishery Science
- Developments in Fish Production and Processing
- Enterprise and Resource Management
- Environmental Management
- Dissertation
- Data Analysis

Entry requirements:

A Level	BTEC Ext. Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
Three A Level passes, including two at grade C or above. One of which should be in a Science	DMM	M + 6 units at Distinction	N/A	N/A	A Merit profile in a relevant Access course with 45 credits at Level 3	24 points with HL Science at 4

GCSE Maths and English at grade C or above or Level 2 Functional Skills in Maths and English

Validated by



FdSc (Foundation Degree) Sports Fisheries and Aquaculture

Why choose this degree?

- Focus on vocational learning and gain skills in subjects such as water quality, fish anatomy and physiology, aquaculture and fish health and nutrition
- Experience the industry through visits to fish farms and fisheries and research and collaborative projects
- Benefit from work placements in areas such as salmon farming, specimen carp fisheries, river keeping or even Jamaican tilapia farming
- Progress to final year of relevant BSc (Hons) programme after successful completion

What will I learn?

The programme is designed to develop the practical, scientific and specialist skills needed by the fishery management and aquaculture industry. Subjects studied include water quality, fish anatomy and physiology, fishery management and ecology, aquaculture and fish health and nutrition.

You will also gain work experience in various industry sectors. Previous placements range from Scottish salmon farms, specimen carp fisheries in England, France and Spain and a tilapia farm in Jamaica to river keeping on local chalk streams, the London Aquarium, the Fish Disease Laboratory at Weymouth and bait manufacturers.

How will I be assessed?

Assessment is primarily by coursework, including practical portfolios, laboratory reports, case studies and essay style assignments. At level five a combination of formal examinations and group research projects also contribute to overall assessment.

Two years full-time

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UCAS code: D439
.....

Course Tutors

George Hide MSc, PGCE, BSc (Hons), FHEA

Dr Nick Beevers PhD, MRes, BSc (Hons)

Adrian Love MSc, PGCE, BSc (Hons), FHEA

Where can I go from here?

You can progress to the BSc (Hons) in Aquaculture and Fishery Management Top-up at Sparsholt; alternatively there are BSc programmes available at other universities.

Sparsholt students have also gained employment as sports fishery managers, fish farmers and fishery officers in the Environment Agency.



I really enjoyed the practical side of the course as I was able to put the skills I'd learnt about in the classroom into action.



Units covered

Level Four

- Fishery Science
- Water Quality
- Industry Skills
- Fishery Management
- Salmonid Farming
- Academic Skills including IT

Level Five

- Fish Health and Nutrition
- Marine and Warmwater Fish Farming
- Fishery Appraisal
- Financial Studies
- Applied Industrial Research including Data Analysis

Entry requirements:

A Level	BTEC Ext. Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
Two A Level passes, including one at grade C or above which should be in a Science	MMP	P + 6 units at Merit or above	MM	M	A satisfactory pass in a relevant Access course with 45 credits at Level 3	Appropriate IB Certificates considered

GCSE Maths and English at grade C or above or Level 2 Functional Skills in Maths and English.

Validated by





FdSc (Foundation Degree) Marine Ecology and Conservation

Why choose this degree?

- Gain the skills and experience needed for a variety of career opportunities in this growing sector
- Enhance your learning with work placements both in the UK and abroad
- Experience the industry in depth by visiting fish farms, coastal sites and research centres
- Develop wide-reaching skills and knowledge in biological science – from physiology to ecology and evolution

Two years full-time

.....
UCAS code: CF17
.....

Course Tutors

Dr Nick Beevers PhD, MRes, BSc (Hons)
Dr Lucy Crooks PhD, BSc (Hons), FHEA

What will I learn?

Marine ecology and conservation systems are studied in depth in this programme as you explore the impact of factors such as coastal developments, over-fishing, non-native species and worldwide climate change.

The course includes significant work experience in marine aquaculture, coastal fisheries, marine aquaria and research establishments both at home and abroad.

How will I be assessed?

Assessment is primarily by coursework, including practical portfolios, laboratory reports, case studies and essay style assignments, plus three formal exams. Research opportunities are also a feature, often enabling data collection within organisations such as the Environment Agency.



of students are satisfied with the level of academic support (NSS 2014)

Where can I go from here?

You can progress to the BSc (Hons) Top-up in Marine Biology at the University of Portsmouth, or enter the industry. Sparsholt students now work in national wildlife trusts and marine research.

Units covered

Each year includes an assessed work placement unit

Level Four

- Science and Animal Physiology
- Academic Skills including IT
- Marine Conservation Biology
- Marine Ecology and Marine Fisheries Management
- Biodiversity and Evolution OR Diving Skills (option unit)

Level Five

- Aquatic Population Ecology and Conservation
- Marine Animal Science including Anatomy and Physiology
- Marine Aquaculture
- Marine Organisms and Ecosystems
- Applied Industrial Research

Entry requirements:

A Level	BTEC Extended Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
Two A Level passes, including one at grade C or above which should be in a Science	MMP	P + 6 units at Merit or above	MM	M	A satisfactory pass in a relevant Access course with 45 credits at Level 3	Appropriate IB Certificates considered

GCSE Maths and English at grade C or above or Level 2 Functional Skills in Maths and English.

Validated by



Faculty of Horticulture

Head of Faculty:

Jonathan Baker FICfor, Chartered Forester, MArborA, CEnv, Chartered Environmentalist, MIFL

COURSES

BSc (Hons)

Horticulture with Plantsmanship and Design (Top-up)

(Subject to validation)

One year full-time

FdSc

Horticulture with Plantsmanship and Design

(Subject to validation)

Two years full-time or three years part-time



We've developed this course so the content is very focused and completely relevant to the industry so students are prepared for employment.



of students are satisfied with the level of academic support (NSS 2014)



INDUSTRY LINKS

These courses were developed to meet the needs of the Horticulture industry, reflecting Sparsholt's experience and reputation in the sector. Links with leading organisations as well as innovative projects with companies such as Huhtamaki, a world-leading producer of compostable packaging, ensure students graduate with relevant, hands-on experience as well as technical expertise.

Sparsholt staff are active on a local and national level, with expert profiles in areas from English apple varieties to garden design, and have a regular presence at key industry events.

Some of the organisations we work with include:

- The Royal Horticultural Society (RHS)
- The Chartered Institute of Horticulture
- The Horticultural Development Company
- The Horticultural Trades Association
- The Society of Garden Designers
- British Association of Landscape Industries (BALI)
- Plant Heritage
- The National Trust
- BBC Radio 4 Gardeners' Question Time
- Landex
- Hillier Nurseries and Garden Centre



SUPERIOR FACILITIES

- Five hectares dedicated to horticultural practice
- Landscaped gardens, lawns and decorative beds
- Multi-bay production polytunnels
- Garden design studio
- Small fruit area (orchard)
- Turf management
- Tropical glasshouses used all year round
- Drawing studio – with A1 drawing boards and design software
- Ornamental grounds providing a wide variety of plants for identification and analysis
- Sports and recreation areas



SPOTLIGHT ON...

Matt Jessop MEd, PgDip, TQFE, BSc (Hons), HND (HE Horticulture Lecturer)

Areas of Teaching Expertise

Business and Economics, Organics and Sustainability, Crop Production

About Me

I have worked in the industry for 20 years, but I have always had an interest in the environment - in particular how people earn a living from the natural environment. I had the privilege of an upbringing that instilled a global outlook on issues and I am fascinated with how we produce food and enhance the landscapes that we often take for granted. An increasingly erratic climate, loss of productive land, increased human population, decreasing biodiversity and increased built environment – these are all complex problems that are reflected in my eclectic range of interests.

Recent Activities

- Worked with the Garden Design industry and the University of Portsmouth to develop course content which fulfils industry needs
- Contributes to the RHS Horticulture Matters Campaign (2013)
- Researched the effectiveness of increasing cognitive load via collaborative practice in learners
- Researched the understanding, meaning and teaching of vocational skills and how they correlate with industry requirements
- Liaising with the Horticultural Development Company to provide research opportunities for student projects

MEET OUR EXPERTS



Chris Bird

MHort (RHS), NCH, Cert Ed, FCIHort

I have always been interested in plants and their arrangement and work closely with outside organisations, such as Plant Heritage, the RHS and the National Trust, to promote their use. Since 1998, I have coordinated the College's display for the RHS Chelsea Flower Show; results include six Gold medals and three 'Best in Category' awards. I also recently edited 'The Fundamentals of Horticulture: Theory and Practice'.



Chris Prior

Dip Hort, Dip Garden Design, BA (Hons), MSGD

I have always had an interest in art, natural history and gardening. I hold a BA (Hons) degree in Graphic Design and after 20 successful years running a London based design agency I decided to go back to college. Having gained diplomas in Horticulture and Garden Design I set up my own garden design consultancy and have worked in the garden design industry for 12 years. I am a fully registered member of the Society of Garden Designers.



overall satisfaction with Horticulture courses (NSS 2014)



The lecturers were excellent – very knowledgeable and with extensive experience of working in the industry, great research opportunities as well.



BSc (Hons) Horticulture with Plantsmanship and Design (Top-up)

Why choose this degree?

- Study at a renowned organisation with close links with industry
- Top-up your existing qualifications to full BSc level over one or two years
- Focus on employability by enhancing your technical and academic skills
- To enhance plant knowledge tailored to your individual career aspirations

What will I learn?

This course will develop your technical, critical thinking and analytical skills over the course of five units. Delivered flexibly with up to two taught days a week, it aims to build on your current knowledge in an industry-standard environment.

Through the dissertation project you will produce a study and analyse, explain and interpret the results using techniques gained throughout the course.

How will I be assessed?

You will showcase your knowledge through a combination of written assignments, case studies, seminar presentations and exams. The dissertation unit will prove your skills within the field of research and we encourage students to present this work to other organisations.



of students are satisfied with the assessment and feedback (NSS 2014)

One year full-time

NEW COURSE -
Starting from 2017
(progression from FdSc see page 92)

.....
Use our part-time HE application form to apply directly to us
.....

Course Tutor
Matt Jessop MEd, PgDip, TQFE,
BSc (Hons), HND

Units covered

Level Six

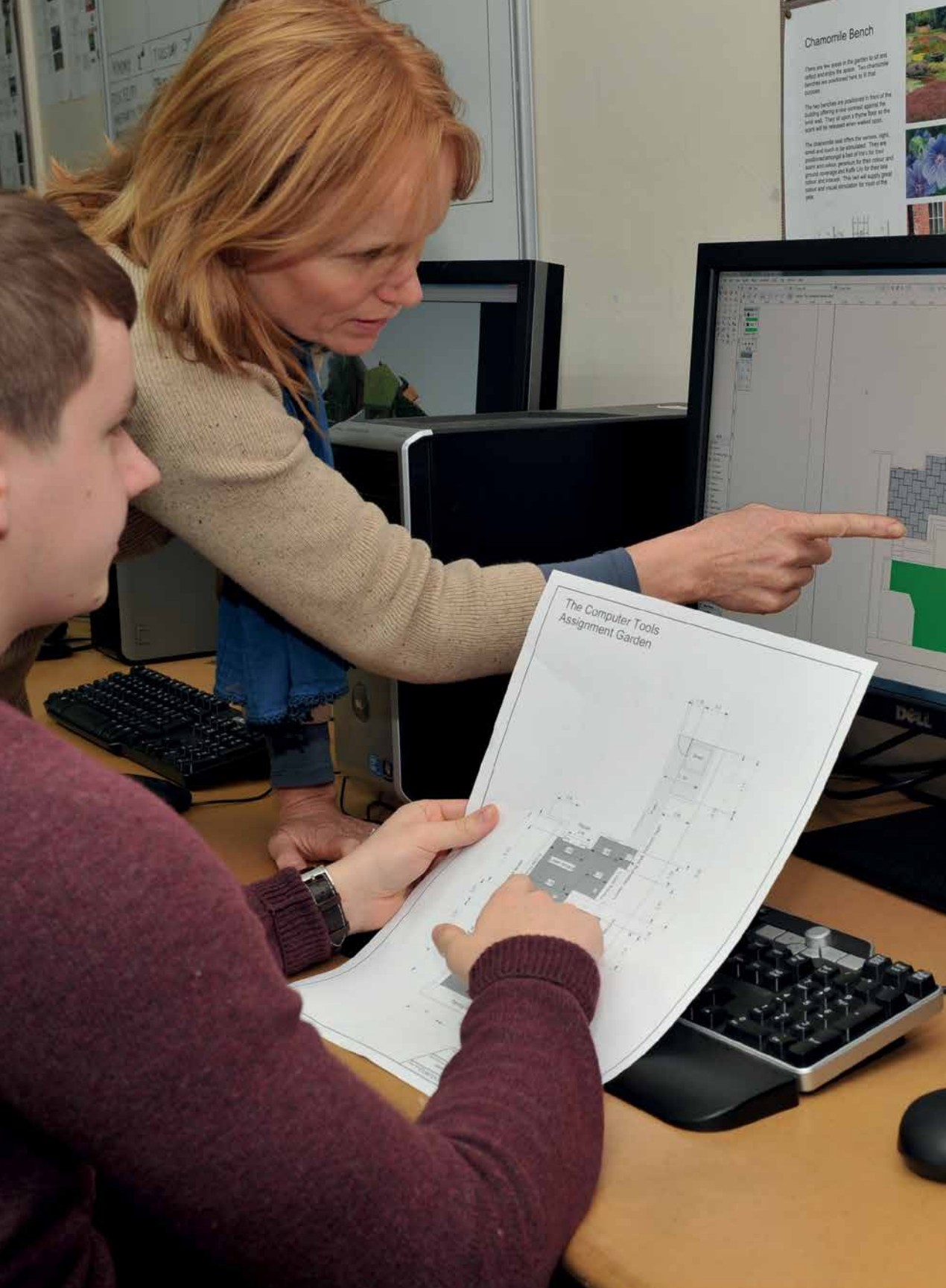
- Sustainable Horticultural Practice
- Planting Design and Use
- Propagation and Production Techniques
- Design Innovations and Influences Dissertation

Entry requirements:

Foundation Degree or equivalent in Horticulture or a related subject.

Subject to validation by





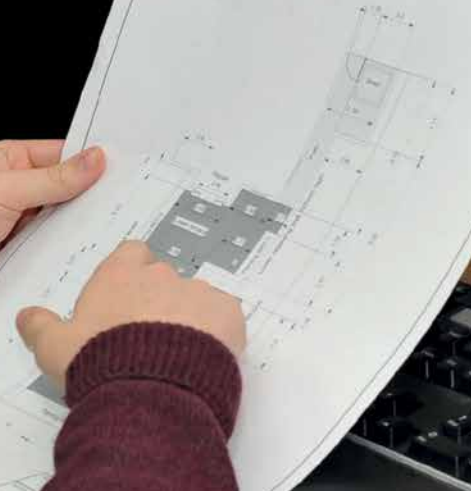
Chamomile Bench

There are two seats in the garden to sit and reflect and enjoy the view. The chamomile benches are produced here to fit that location.

The two benches are produced in front of the building offering a nice view across the field and. They sit upon a Paving Stone on the grass and be removed when needed again.

The chamomile seed often the various, light, and and each to be stimulated. They are produced through a bed of straw to be first and are suitable for their colour and great coverage and help to for their best colour and growth. This has not nearly great cover and will stimulate to rest of the year.

The Computer Tools Assignment Garden





FdSc (Foundation Degree) Horticulture with Plantsmanship and Design

Why choose this degree?

- Combine the science of horticulture with commercially sought-after elements of plantsmanship and garden design
- Gain the skills to progress to a BSc Top-up programme or enter the industry
- Enhance your employability with commercially based projects, strong business content and project management units
- Combine study and work with this full or part-time course

Two years full-time or
three years part-time

UCAS code: D417

Course Tutor

Matt Jessop MEd, PgDip, TQFE,
BSc (Hons), HND

What will I learn?

The course introduces higher level study and explores the various science, design and business elements of horticulture. You will develop vital knowledge and experience through industry placement, as well as research and analytical skills through independent and group study.

How will I be assessed?

The assessment strategy is a combination of formal examination and coursework. Coursework includes practical portfolios, laboratory reports, case studies, plant identification tests, visual poster displays, seminar presentations and essay style assignments. Formal examinations are weighted to be no more than 50% of the unit total.

Where can I go from here?

You can progress to the BSc Horticulture with Plantsmanship and Design Top-up course at Sparsholt which will be available from 2017. Alternatively there are many BSc programmes available at other universities.

You will have the plant knowledge and skills needed by the private and public sectors in many diverse areas, including retail, landscaping, research and production. Opportunities also exist within landscape organisations. While traditionally

garden designers have always worked on a self-employed, freelance basis, recent years have seen a significant increase in the number of employed job roles in this area of work.

Units covered

Level Four

- Plant Biology and Processes
- Soils and Substrates
- Plant Classification and Nomenclature
- Business Analysis
- Academic Skills
- Design Influences

Level Five

- Work Practice 2
- Investigative Project
- Plant Protection
- Plant Identification and Use
- Landscape Management
- Horticulture Enterprise and Management



We do a lot of practicals and the lecture's knowledge and enthusiasm is unrivalled, you wouldn't get that anywhere else.



Entry requirements:

A Level	BTEC Extended Diploma	City & Guilds Ext. Diploma	BTEC Diploma	City & Guilds Diploma	Access to HE	International Baccalaureate
Two A Level passes, including one at grade C or above which should be in a Science	MMP	P + 6 units at Merit or above	MM	M	A satisfactory pass in a relevant Access course with 45 credits at Level 3	Appropriate IB Certificates considered

GCSE Maths and English at grade C or above or Level 2 Functional Skills in Maths and English.

Subject to validation by



Finance and Fees

The information provided here is accurate as of February 2015. Students are advised to confirm the situation at time of application.

Study Options – full or part-time?

We've listed full and part-time tuition fees, tuition fee loan details and some of the funds that may be available to help with study-related costs such as travel or childcare. If you still have questions, please give us a call on 01962 797267 and we will be happy to help.

Studying part-time gives you flexibility around work and family commitments and allows you to earn while you learn. Several of our Foundation Degrees (FdSc) and Honours Degrees (BSc (Hons)) can be studied part-time at Sparsholt. You can also apply for a tuition fee loan – see if you qualify by visiting www.gov.uk/studentfinance or calling 0300 100 0607.

Tuition Fees

Full-time Higher Education Courses (commencing September 2016)

All undergraduate students are required to pay an annual tuition fee – but if you are a UK or EU undergraduate you will not have to pay these from your own means before or during study as you are eligible for a student tuition fee loan to cover the cost of fees. The government pays the tuition fee directly to the College so no money passes through your bank account and you do not have to pay back the loan and interest until you are earning more than £21,000 a year. If you leave your course early you would need to repay a percentage of the tuition fee loan for that year.

More information about student loans can be found at www.gov.uk/studentfinance*

*If you are normally resident in Scotland, Wales or Northern Ireland please check www.gov.uk/studentfinance for relevant application and contact details. If you are a UK/EU student paying the tuition fees yourself, you can either pay the full fee upfront or 10% at enrolment and the remainder over 10 months interest-free. Fees for 2016 will be published on our website once they are approved, 2015 fees are below as a guide.

Annual course Fees for UK/EU Students 2015-16	Full-time	Part-time
All undergraduate courses except FdSc Veterinary Nursing	£7,800	£5,200
FdSc Veterinary Nursing	£6,000	N/A
MSc programmes	£5,700*	£2,850 per year

*A 10% discount applies for progressing Sparsholt students.

International Students

If you have not been ordinarily resident in the European Union (including UK) for three years prior to the commencement of your course of studies, you will be eligible for international fees; also, if you are not normally resident in an EEA member state it is likely that you will need to apply for a student visa after your successful application to the College.

You must be over the age of 18 to commence Higher Education at the College. You must have a minimum IELTS score of 6.

For further information about courses, applications, entry requirements, international fees and visas, please email: international@sparsholt.ac.uk

Higher Education Courses – Annual Course Fees for International Students 2015-16	Full-time
All courses (excluding MSc)	£9,800
FdSc Veterinary Nursing	£7,500
MSc programmes	£10,400*

*A 10% discount applies for progressing Sparsholt students.



Financial Support

Maintenance Loans and Grants for Full-time Undergraduate Students

If you are studying full-time and your household income is less than £42,600 a year, you may be entitled to a maintenance grant, which does not have to be repaid. There is also a maintenance loan available to any full-time student to help with living costs such as rent. This does have to be repaid but not until your course has finished and you are earning more than £21,000 a year.

The College is required to confirm your attendance/enrolment with the Student Loan Company before maintenance loans can be released – so any payments will be received roughly a week after enrolment.

Find out more about how much you may be entitled to by visiting www.gov.uk/studentfinance where there is a calculator you can use to check your eligibility.

Access to Learning Fund (ALF)

This College-operated fund can provide extra financial support for Higher Education students who have higher than expected costs (such as lone parents and mature students), a sudden financial emergency (for example a burglary) or serious financial problems during their course.

The fund can be used for course-related costs such as childcare, books and equipment, travel or for general living costs such as rent but is not to be used to pay tuition fees. If you qualify for a payment from the fund, it will not usually have to be repaid.

For further details please contact our Finance Team on 01962 797267 or email student.funding@sparsholt.ac.uk

Enhanced Learning Credits

The College is an Approved Learning Provider for the Ministry of Defence's Enhanced Learning Credits (ELC) scheme. Under this scheme the MOD will pay up to 80% of your tuition fees for study at Level 3 or above for up to three years (NVQ3, Advanced National Certificate or Foundation Degrees).

Sparsholt College Bursary

If your household income is under £25,000 you could receive a bursary of up to £750. Once you have enrolled you will be able to collect an application form for this from Student Services - please fill this in so we can look at your circumstances and help wherever possible.

Progressing Sparsholt Students

If you are completing a full time Level 3 programme at Sparsholt in 2016 and are progressing to an HE course at Sparsholt, you may be entitled to an additional bursary to assist with your transition. This is will be means tested and directed at those in most need. For more information and to check your eligibility please contact Student Services on 01962 776441.

Please contact the Student Administration Team on 01962 797267 for further details.

Recognition of Prior Learning (RPL) or Accreditation of Prior Learning (APL)

If you have work experience or previous qualifications relevant to your chosen course, or even experience gained through volunteering or a hobby, you may be entitled to an exemption from part of your course allowing you to complete your programme more quickly.

If you feel that this service could be relevant to you and you would like to apply for this accreditation, you will need to discuss your previous experience and qualifications with a tutor at the interview stage. The tutor will then be able to evaluate your previous experience and the extent of likely accreditation. All Recognition or Accreditation of Prior Learning must be agreed and validated by the University of Portsmouth before your course commences.



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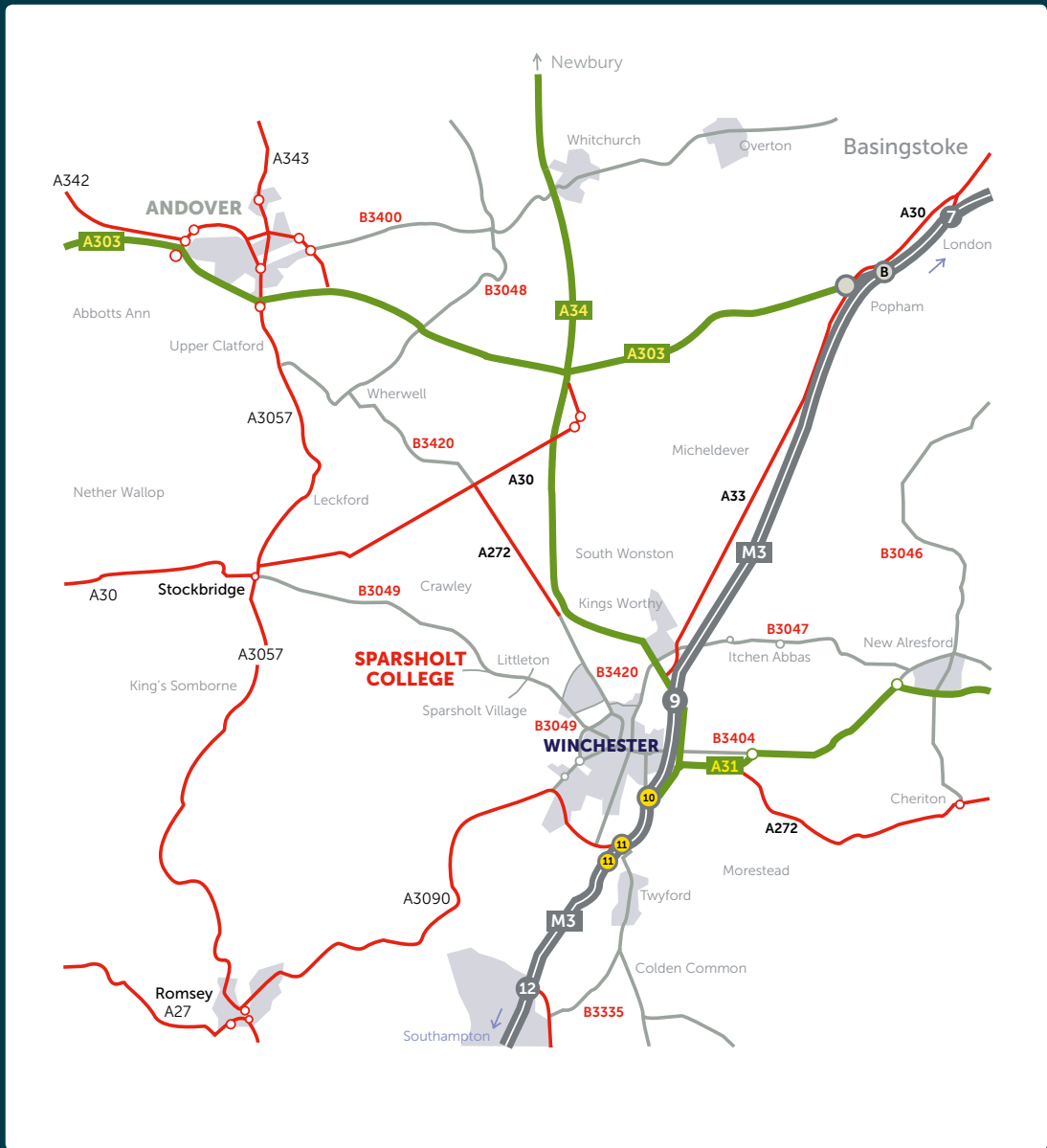
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Please Note - Course Conditions

The information contained in this prospectus is correct as far as can be ascertained at the time of publication. You are advised to enquire about any amendments or alterations which may affect your particular course when you make your application.

While the College will make every effort to provide all courses as planned, it is obliged to reserve the right to cancel a course, amend course delivery or reduce the student numbers. Any offer of a place is conditional on the College being able to provide the course and, in the unlikely event that it is not able to do so, applicants will be informed individually and the offer will lapse. In such circumstances, it is usual for a student to be offered a place on a similar or related course or given advice on the nearest alternative course available.





SPARSHOLT
COLLEGE HAMPSHIRE



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youtube.com/SparsholtCollegeSCH

instagram.com/sparsholt_coll

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Sparsholt, Winchester, Hampshire
SO21 2NF United Kingdom

01962 776441
enquiries@sparsholt.ac.uk
sparsholt.ac.uk

Open days

Saturday 3rd October 2015 10am – 2pm

Saturday 14th November 2015 10am – 2pm

Saturday 27th February 2016 10am – 2pm

Thursday 23rd June 2016 4pm – 7pm

Pre-register at sparsholt.ac.uk

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University of
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