Plymouth University

Academic Partnerships

CORNWALL COLLEGE, Newquay

Programme Quality Handbook

BSc Applied Marine Zoology

Academic Year 2019-2020

If you require any part of this Handbook in larger print, or an alternative format, please contact:

HE Operations
Tel: *(01209 616256)*

E-mail: *(cornwallhea@cornwall.ac.uk)*

Please note:

All the information in this Handbook is correct at the time of printing.

The Cornwall College Group is proud of its teaching and research and it undertakes all reasonable steps to provide educational services in the manner set out in this Handbook and in any documents referred to within it. It does not, however, guarantee the provision of such services. Should industrial action or circumstances beyond the control of the College interfere with its ability to provide educational services, the University undertakes to use all reasonable steps to minimise the resultant disruption to those services.

Welcome and Introduction to BSc (Hons) Applied Marine Zoology

Welcome to the BSc in Applied Marine Zoology. The College is delighted that you have chosen to study with us. Achieving a place on this course is invariably the result of hard work and determination. You will now be mixing with fellow students from a wide range of backgrounds – some straight from school, some from college access programmes and others who have been working for some time and have decided to pursue a career change. We are sure you are going to have a great time here and will get a great deal from the programme.

This programme has been designed to equip you with the skills and knowledge base required to work in your chosen specialism or other graduate opportunities. It is also a platform from which you can undertake additional vocational and academic qualifications.

The first year of any degree is the start of a process of change and by the time you enter your second year you will be thinking quite differently from how you do now; more analytically, more logically, with a clearer understanding of basic principles. There may be times when you feel over-stretched, frustrated, perhaps even under-challenged, but these will be outweighed by the exhilaration of producing and understanding work with intellectual rigour and a sense of achievement when you successfully complete your first year.

You will have some great times in the next three years, but it would be unrealistic to think there won't be any bad times and the key is to maintain a balance in your social life and your College commitments. Have a good social life – go surfing, sailing, etc, but make sure you:

- Attend classes;
- Keep up with your reading and research;
- Complete coursework properly and hand in on time;
- Revise thoroughly for exams.

If you follow these simple rules, you'll have your Degree in three years and some significant memories which will stay with you forever.

This Programme Quality handbook contains important information including:

- The approved programme specification
- Module records

Note: the information in this handbook should be read in conjunction with the current edition of the College Handbook available on the HE Operations Moodle page; which contains student support based information on issues such as finance and studying at HE along with the University's Student Handbook available here: https://www.plymouth.ac.uk/your-university/governance/student-handbook.

Programme Team

The Programme Manager for your Degree is responsible for the effective delivery and development of the programme and providing, programme advice to students. They also chair the Programme Committee which has student representation.

Name	Office Location	Tel	Email
Rebecca Allen (Programme manager)	RO7	01637 857950	rebecca.allen@cornwall.ac.uk

Each module within your programme has a designated Module Leader who is responsible for the effective delivery and development of the module and providing, module advice to students.

Module	Name	Office	Tel	Email
• Marine Science • Marine Survey Techniques • Monitoring Marine Ecosystems	Jason Birt	R16	01637 857922	jason.birt@cornwall.ac.uk
• Ecology of Aquatic Systems • Marine Vertebrate Biology and Conservation	Rebecca Allen	R07	01637 857950	rebecca.allen@cornwall.ac.uk
• Marine Invertebrates	Chris Selvey	R07	01637 857924	christopher.selvey@cornwall.ac.uk
• Diversity, Classification & Evolution • GIS & Marine Environmental Management	Angus Jackson	R16	01637 857921	angus.jackson@cornwall.ac.uk
• Conservation Project Management	Stephen Green	R16	01637 857921	stephen.green@cornwall.ac.uk
• Biological Principles • Fish Ecology	Andrew Golley	R07	01637 857929	andrew.golley@cornwall.ac.uk
• Research Methods and GIS for Zoology • Key Professional Skills	Kelly Haynes	R16	01637 857937	kelly.haynes@cornwall.ac.uk

• Marine Pollution and Ecotoxicology • Zoological Conservation in Practice				
• Applications of Zoology	Lawrence Moores	C04	01637 857935	lawrence.moores@cornwall.ac.uk
• Biosecurity and Invasive Species	Nicola Morris	R16	01637 857935	nicola.morris@cornwall.ac.uk

CORPORATE HE ASSISTANT REGISTRAR: **Michelle (Mitch) Inglis**. *What does the Corporate HE Assistant Registrar (CHEAR) do?* The CHEAR is your point of contact in HE Operations for all administrative paperwork to do with the programme. They can be contacted on: Telephone: 01209 617759 or Ext 3759.

Email: mitch.inglis@cornwall.ac.uk

UNIVERSITY OF PLYMOUTH

PROGRAMME SPECIFICATION

Programme Title: **BSc (Hons) Applied Marine Zoology**

Internal Programme Code: **4897**

Partner Delivering Institution: **Cornwall College (Newquay Campus)**

State Date: **September - 2019-20**

First Award Date: **July – 2022-23**

Date(s) of Revision(s) to this Document: **Updated Oct 2018/June 2019**

Contents

PS1. Programme Details

Awarding Institution:	Plymouth University
Partner Institution and delivery site (s):	Cornwall College (Newquay Campus)
Accrediting Body:	N/A
Language of Study:	English
Mode of Study:	Full time
Final Award:	BSc (Hons) Applied Marine Zoology
Intermediate Award:	N/A
Programme Title:	BSc(Hons) Applied Marine Zoology
UCAS Code:	**OB4X**
HECOS CODE:	100883, 100351
Benchmarks:	The standards referred to for the development of this award are the QAA subject benchmarking document for Biosciences (2015). The management and delivery of the programme is in accordance with the precepts of the QAA Code of Practice and the Framework for Higher Education Qualifications (FHEQ).
Date of Programme Approval:	June 2014

PS2. Brief Description of the Programme

This text is definitively approved at programme approval and therefore may be directly used for promotion of the programme without the need for further confirmation (Approx. 200-250 words)

What is more exciting or enigmatic than the life in our oceans? We still know so little about this other world which makes up 98% of the living space on our planet but with technology developing at such a pace more and more discoveries are being made. It is an exciting time to be involved in any aspect of marine science, and a one crucial too, as our impact on the world's oceans have never been greater.

This programme aims to produce graduates with a detailed knowledge and understanding of marine life but also with strong practical knowledge and experience in order to meet the needs of an increasing environmental sector. Over the three years of the course students will acquire skills in a broad range of practical and technological techniques relevant to the study, recording and conservation of marine life.

This practical theme is enabled by the prime location of the college in Cornwall. A variety of aquatic habitats on the doorstep enable us to build fieldwork into the heart of the programme to enhance learning. The county is a focus for marine conservation with growing teams of marine officers and specialist working for the Cornwall Wildlife Trust and Natural England and this provides great potential for work related learning.

PS3. Details of Accreditation by a Professional/Statutory Body (If Appropriate)

None noted at this time.

PS4. Exceptions to Plymouth University Regulations

(Note: Plymouth University's Academic Regulations are available internally on the intranet: https://staff.plymouth.ac.uk//extexam/academicregs/intranet.htm*)*

None noted at this time.

PS5. Programme Aims

This programme will deliver:

A1: focused on knowledge and understanding within a rich, varied and contemporary programme to provide a detailed understanding of marine zoology alongside the practical techniques underpinning the science in this field.

A2: focused on cognitive and intellectual a critical framework with which to evaluate the ethical, cultural, political and environmental issues affecting the conservation of marine life.

A3: focused on key transferable skills the ability to synthesise knowledge from a variety of sources and communicate this research through a variety of traditional and contemporary media.

A4: focused on employability and CPD/lifelong learning the independence, confidence and self-management skills which will enable students to plan, undertake, analyse and evaluate scientific investigations and surveys.

A5: focused on practical skills opportunities through industry links, applied teaching and work experience for students to focus their career aims by developing a critical knowledge of the marine environment industry.

A6: an inspiring and challenging environment to develop key transferable skills and qualities required for effective team work, project management and communication.

PS6. Programme Intended Learning Outcomes (ILO)

By the end of this programme the student will be able to:

ILO1: knowledge and understanding –Access and evaluate information on marine zoology from a variety of sources and communicate this confidently and effectively through a variety of media

ILO2: cognitive and intellectual skills –Have a secure and accurate understanding of marine zoology at a variety of levels (from molecular to ecological systems) and put this into context of evolutionary theory.

ILO3: transferable skills – Construct and evaluate effective strategies for the conservation of marine life working within the current cultural, ethical and legislative framework.

ILO4: employment – Employ a broad range of practical and technological techniques relevant to the survey, reporting and study of marine life.

ILO5: practical –Demonstrate autonomous learning, knowledge of experimental design, planning, time management, analysis and problem solving skills through the completion of a piece of independent research.

ILO6: Use industry based experience to assess their knowledge of marine zoology within the context of the marine environment sector.

ILO7: Function as autonomous learners fully equipped to engage with lifelong learning and postgraduate study.

PS7. Distinctive Features

This text is definitively approved at programme approval and therefore may be directly used for promotion of the programme without the need for further confirmation:

Location:

- Cornwall has 258 miles of surrounding coastline and this places the college in a supreme location for studying the marine environment. A variety of aquatic habitats within easy walking distance enables fieldwork and practical survey techniques to be easily integrated into the programme.

Facilities:

- The campus at Newquay is small and friendly allowing a supportive and personal environment. It is surrounded by its own grounds and gardens and is adjacent to Newquay Zoo and Trenance Park. The college also has two classrooms on Tolcarne beach and a small teaching space at Blue Reef Aquarium

Partnerships and industry links:

- The college has direct industry partnerships with Newquay Zoo and Blue Reef Aquarium and students have free access and priority work placements with both.
- Partnership with local marine ecotourism operators enables boat based survey experience to be easily accessible to students. A number of boat based activities are built into the curriculum throughout the year.
- There are strong links within the marine environment sector in Cornwall and representatives from the Cornwall Wildlife Trust, the Environment Agency, Natural England and Cornwall Inshore Conservation and Fisheries Authority, and the National Lobster Hatchery often contribute guest lectures.
- Cornwall College is a partner college of Plymouth University and as such student are officially members of both institutions. Through the university there are links to Plymouth Marine Laboratories and the Marine Biological Association.

Teaching and learning:

- This programme will deliver a detailed theoretical knowledge and understanding of marine life and also develop strong practical knowledge and experience. Over the three years of the course students will acquire skills in a broad range of practical and technological techniques relevant to the study, survey, and reporting of marine life.
- A variety of trips to local facilities such as the Marine Biological Association, the Cornish Seal Sanctuary and the National Marine Aquarium are used to enhance the curriculum. Optional fieldtrip opportunities are available to Portugal, Egypt, South Africa and Borneo.
- There is strong pastoral support. Students are allocated a personal tutor and will have regular meetings with them to check progress, develop academic skills and professional development.
- The small size of the campus promotes a friendly and supportive environment; no-one is lost in the crowd!

Staff:

- The teaching staff are active in the voluntary marine conservation sector with groups in the area such as British Divers Marine Life Rescue, Cornwall Seal Group and various local marine groups such as the St Agnes and Newquay Marine Conservation Groups and Cornwall Wildlife Trust projects (Strandings programme, Seaquest, PANACHE, Intertidal discovery).

Students:

- SINNG (Student Invasive and Non Native Group) is a DEFRA funded, national award winning student led local action group

PS8. Student Numbers

The following provides information that should be considered nominal, and therefore not absolutely rigid, but is of value to guide assurance of the quality of the student experience, functional issues around enabling progression opportunities to occur and staffing and resource planning:

*Minimum student numbers per stage =***12**

Target student numbers per stage = **16**

Maximum student numbers per stage = **20**

PS10. Admissions Criteria

Entry Criteria (Qualifications)	Details
Functional Skills GCSE (or equivalent)	L2 Literacy and L2 Numeracy Minimum of Grade C/grade 4 in Maths, English Language and Science (if science based programme)
A/AS Levels	BSc (science based) - 80 UCAS tariff points to include at least 56 points from A2 level in relevant subjects
BTEC National Diploma/Extended Diploma/L3 Diploma BTEC 90 Credit Diploma/Subsidiary Diploma*	BSc (science based) – 80 UCAS tariff points – in a relevant subject As above in a relevant subject and considered only with combination of other relevant level 3 qualifications
City & Guilds (land based) Extended Diploma/ Advanced Technical Extended Diploma City & Guilds (land based) L3 Diploma/ Subsidiary Diploma/90 Credit Diploma*	BSc (science based) – 80 UCAS tariff points – in a relevant subject BSc (science based) – 80 UCAS tariff points – in a relevant subject *Usually accepted only in combination with other relevant L3 qualifications
Access to HE Diploma	Successful completion of Access to HE Diploma with at least 45 credits at level 3 in a relevant subject
International Baccalaureate	24 points
Scottish/Irish	BSc (science based) - 80 UCAS tariff points to include at least 56 points from Scottish Advanced Highers/Irish Highers
Other Level 3 qualifications	Will be taken into consideration and dependent upon subject area and number of units studied
Mature Applicants (over 21)	Mature applicants with relevant experience but without the stated entry qualifications will be considered individually at interview
Accreditation of Prior Learning	
Independent Safeguarding Agency (ISA)/Disclosure and Barring Service (DBS) clearance required	
Capability statement	

PS11. Academic Standards and Quality Enhancement

The Programme Leader/Manager (or the descriptor) leads the Programme Committee in the Plymouth University's annual programme monitoring process (APM), as titled at the time of approval. APM culminates in the production, maintenance and employment of a programme level Action Plan, which evidences appropriate management of the programme in terms of quality and standards. Any formally agreed changes to this process will continue to be followed by the Programme Leader/Manager (or other descriptor) and their Programme Committee.

Elements of this process include engaging with stakeholders. For this definitive document it is important to define:

Subject External Examiner(s):

An Interim visit by External Examiner (EE) (usually between January and February) will review work that has been marked, consult students and feed back to the programme manager and module leaders and course team.

Subject Assessment Panel (SAP) reviews the assessment marking and is scrutinised by the subject EE. Representatives of the team review and present their module marks for each student on the programme.

The annual Award Assessment Board (AAB) takes place with Programme Manager, the awarding body's partnership member and the External to receive the students work and confer progression or award.

The following modules are parented by this programme and therefore covered by this programme's external examiner:

- Key Professional Skills,
- Biological Principles,
- Diversity Classification and Evolution,
- Marine Survey Techniques,
- Ecology of Aquatic Systems,
- Marine Science
- Research Methods and GIS for Zoology,
- Marine Invertebrates
- Fish Ecology
- Monitoring Marine Ecosystems,
- GIS and Marine Environmental Management,
- Marine Pollution and Ecotoxicology,

The following modules are parented by other programmes:

FdSc Wildlife Education and Media - Marine Vertebrate Biology and Conservation,
BSc (Hons) Applied Zoology - Honours Project, Applications of Zoology,

BSc (Hons) Applied Zoology and Conservation – Biosecurity and Invasive Species, Zoological Conservation in Practise, Conservation Project Management

Additional stakeholders specific to this programme:

Students have the opportunity to discuss the programme independently, twice a year in the Student Review. This forms part of the discussion for the annual programme monitoring in the autumn and spring of each academic year.

The Student Perception Questionnaire (SPQ) is administered during the year and feeds into the programme review.

Students Representatives attend Annual Programme Monitoring (APM) to contribute student views alongside Module Leaders, the Programme Manager and the Assistant Registrar to monitor module delivery and the course provision.

Current students on the programme will be asked to elect a student representative from each year to act as a liaison between the student body, the student union and course team.

Curriculum meetings take place once a month to review progression, department provision, resources and staffing.

Employers are invited to an employer's forum held once a term, whereby development of programme, modules, assessment and further employer links for work-related study and work experience placements are discussed and embedded into the programme.

The teaching team will hold termly course meetings and be present at the annual programme meeting and programme committee meeting.

PS12. Programme Structure

College	Cornwall College, Newquay	**Programme Title**	BSc (Hons) Applied Marine Zoology
Academic Year	2019-2020	**Mode of Attendance** **Course Duration**	Full time (3 Years)
Plymouth Programme Code	4897	**Total Credits**	Level 4 – 120 credits Level 5 – 120 credits Level 6 – 120 credits 360 Credits Total

FHEQ Level: 4 BSc (Hons) Applied Marine Zoology (Full Time 4897)				
F/T Route Year	**When in Year? (I.e. Autumn, Spring etc.)**	**Core or Option Module**	**Credits**	**Module Title**
1	All	Core	20	CORN172 Marine Science
1	All	Core	20	CORN128 Ecology of Aquatic Systems
1	All	Core	20	CORN1000 Fundamentals of Biology
1	All	Core	20	CORN1005 Key Professional Skills
1	All	Core	20	CORN135 Marine Survey Techniques
1	All	Core	20	CORN1002 Diversity Classification & Evolution
FHEQ Level: 5 BSc (Hons) Applied Marine Zoology (Full Time 4897)				
F/T Route Year	**When in Year? (I.e. Autumn, Spring etc.)**	**Core or Option Module**	**Credits**	**Module Title**
2	All	Core	20	CORN2018 Marine Vertebrate Biology and Conservation
2	All	Core	20	CORN290 Fish Ecology
2	All	Core	20	CORN291 Marine Invertebrates
2	All	Core	20	CORN276 Research Methods and GIS for Zoology
2	All	Optional	20	CORN2016 Global Conservation Issues
2	All	Optional	20	CORN273 Population Genetics & Community Ecology
2	All	Optional	20	CORN236 Marine Conservation in Practice
FHEQ Level: 6 BSc (Hons) Applied Marine Zoology (Full Time 4897)				
F/T Route Year	**When in Year? (I.e. Autumn, Spring etc.)**	**Core or Option Module**	**Credits**	**Module Title**
3	All	Core	20	CORN316 Monitoring Marine Ecosystems
3	All	Core	20	CORN317 GIS and Marine Environmental Management
3	All	Core	40	CORN328 Honours Project
3	All	Optional	20	CORN318 Marine Pollution and Ecotoxicology
3	All	Optional	20	CORN314 Conservation Project Management
3	All	Optional	20	CORN306 Applications of Zoology
3	All	Optional	20	CORN315 Conservation Genetics
3	All	Optional	20	CORN305 Communicating Zoology

PS13. Explanation and Mapping of Learning Outcomes, Teaching & Learning and Assessment

Developing graduate attributed and skills, at any level of HE, is dependent on the clarity of strategies and methods for identifying the attributes and skills relevant to the programme and where and how these are operationalised. The interrelated factors of Teaching, Learning and Assessment and how these are inclusive in nature, are fundamentally significant to these strategies and methods, as are where and how these are specifically distributed within the programme.

Ordered by graduate attributes and skills, the following table provides a map of the above, plus an exposition to describe and explain the ideas and strategy of each. Therefore, subsequent to the initial completion for approval, maintenance of this table as and when programme structure changes occur is also important:

Level: 4 BSc (Hons) Applied Marine Zoology					
Definitions of Graduate Attributes and Skills Relevant to this Programme	**Teaching and Learning Strategy / Methods**	**Prog Aims**	**Prog intended Learning Outcomes**	**Range of Assessments**	**Related Core Modules**
For this **bachelor level** programme the following has been informed by the QAA Subject Benchmark(s): **Bioscience (2007)** **Knowledge / Understanding:** Engagement with the essential facts, major concepts, principles and theories associated with the chosen discipline. Knowledge of the processes and mechanisms that have shaped the natural world in terms, for example, of the spread of time from the geological to the present and of complexity from the environmental to the cellular. The influence on living systems of human activities (and the converse) could also be considered **Threshold standard:**	**Primary:**		P1, P2, P6		

• Describe how organisms are classified and identified • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits its environment. • Describe the place of the organisms studied in the living world. • Have an understanding of the explanation of biological phenomena at a variety of levels (from molecular to ecological systems) and be able to explain how evolutionary theory is relevant to their area of study • Demonstrate awareness of human interactions with natural populations and ecosystems, including habitat modification, pollution, exploitation and conservation	Lectures, independent guided study, practical workshops **Secondary/Supplementary:** Site visits to animal collections, Natural History Museum, Eden project. Additional lecture information available on VLE- Moodle.	A1,A2, A3, A4		Essays, in class tests, exams, management plans, reports, poster/presentations	Ecology of Aquatic Systems: CORN128 Marine Science: CORN172 Diversity, Classification and Evolution: CORN1002 Biological Principles: CORN160
Competence in the basic experimental skills appropriate to Zoology and Conservation **Threshold standard:** • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of	**Primary:** Lectures, independent guided study, practical workshops	A1, A4,	P1, P2,P4, P5	Reports, assessed practicals, in class tests, exams	Key Professional Skills: CORN1005 Ecology of Aquatic Systems: CORN128

those data, and testing of hypotheses	**Secondary/Supplementary:** Visits to Electron Microscope, MBA, guest workshops run by ecological consultants and specialists. Additional lecture information available on VLE- Moodle				Marine Science: CORN172 Diversity, Classification and Evolution: CORN1002 CORN1000: Fundamentals of Biology Marine Survey Techniques: CORN135
Familiarity with the terminology, nomenclature and classification systems **Threshold standard:** • Describe how organisms are classified and identified	**Primary:** Lectures, independent guided study, practical workshops **Secondary/Supplementary:** Site visits to animal collections, Natural History Museum, Eden project. Additional lecture information available on VLE- Moodle.	A1	P1,P2	Assessed workshops, in class tests, exams, reports	Ecology of Aquatic Systems: CORN128 Diversity, Classification and Evolution: CORN1002 CORN1000: Fundamentals of Biology
Knowledge of a range of communication techniques and methodologies relevant to zoology and conservation, including data analysis and the use of statistics **Threshold standard:** • Be able to access bioscience information from a variety of	**Primary:**	A3, A4, A6	P1, P5, P7	Essays	Key Professional Skills: CORN1005

sources and to communicate the principles in a manner appropriate to the programme of study	Independent guided study, practical workshops, group seminars, group work **Secondary/Supplementary:** Research seminars. Additional lecture information available on VLE- Moodle.			management plans, reports, poster/presentations	
An exposition for embedding Knowledge and Understanding through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated a given factual and/or conceptual knowledge base with emphasis on the nature of the field of study and appropriate terminology and can demonstrate awareness of ethical issues associated with the subject.					
Cognitive and Intellectual Skills: An appreciation of the complexity and diversity of life processes through the study of organisms, their molecular, cellular and physiological processes, their genetics and evolution, and the interrelationships between them and their environment **Threshold standard:** • Describe the structure, diversity and reproduction of the organisms studied • Describe basic organism structure and diversity • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits it for its	**Primary:** Lectures, independent guided study, practical workshops **Secondary/Supplementary:** Research seminars. Additional lecture information available on VLE- Moodle.	A1, A3,	P1, P2	Essays, in class tests, exams, management plans, reports, poster/presentations	ALL CORE MODULES

environment show knowledge of the basic genetic principles relating to, and evolution of, the organisms studied • Describe the place of the organisms studied in the living world. • Appreciate the importance of the 'behaviour' of the organisms studied. • Demonstrate knowledge of biogeochemical cycles and pathways • Describe and exemplify nutrient and energy flow through individuals, populations and communities • Describe and exemplify patterns of distribution of organisms in relation to biotic and abiotic factors • Demonstrate knowledge of population processes, dynamics and interactions, and associated theoretical models • Demonstrate knowledge of community structure, development, biodiversity, and associated theoretical models • Demonstrate awareness of human interactions with natural populations and					

ecosystems, including habitat modification, pollution, exploitation and conservation					
The ability to read and use appropriate literature with a full and critical understanding, while addressing such questions as content, context, aims, objectives, quality of information, and its interpretation and application **Threshold standard:** • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A2, A3,	P1, P3	Literature reviews, essays, reports, presentations.	Key Professional Skills: CORN1005 Diversity, Classification and Evolution: CORN1002
The ability to think independently, set tasks and solve problems. **Threshold standard:** • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses	**Primary:** Independent guided study, practical workshops **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A2, A4	P3, P4, P5, P7	Assessed practicals, in class tests, exams, project report and presentations	Key Professional Skills: CORN1005 Ecology of Aquatic Systems: CORN128 Marine Science: CORN172 Diversity, Classification and Evolution: CORN1002 CORN1000: Fundamentals of Biology

					Marine Survey Techniques: CORN135
Analyse, synthesise and summarise information critically, including published research or reports **Threshold standard:** • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A3	P1, P5, P7	Literature reviews, essays, reports, presentations.	Key Professional Skills: CORN1005 Diversity, Classification and Evolution: CORN1002
Obtain and integrate several lines of subject-specific evidence to formulate and test hypotheses **Threshold standard:** • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A3, A4	P4,P5,	Projects Reports, Review article assignments,	Key Professional Skills: CORN1005
Recognise the moral and ethical issues of investigations and appreciate the need for ethical standards and professional codes of conduct. **Threshold standard:**	**Primary:**	A2, A5	P3, P6	Debates, presentations, vivas	Key Professional Skills: CORN1005

• Have some understanding of ethical issues and the impact on society of advances in the biosciences	Lectures, group seminars, independent guided study **Secondary/Supplementary:** Guest speakers, industry visits, work placements. Additional information and tasks available on VLE- Moodle				
An exposition for embedding Cognitive and Intellectual Skills through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated the ability to analyse with guidance given classifications/guidance, can collect and categorise ideas and information in a predictable and standard format, can evaluate the reliability of data using defined techniques and/or tutor guidance and can apply given tools/methods accurately and carefully to a well-defined problem and begin to appreciate the complexity of the issues.					
Key Transferable Skills: Communicate about their subject appropriately to a variety of audiences using a range of formats and approaches, using appropriate scientific language **Threshold standard:** • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	**Primary:** Independent guided study, practical workshops, group seminars, group work **Secondary/Supplementary:** Research seminars. Additional lecture information available on VLE- Moodle.	A1, A3	P1, P2, P7	Essays management plans, reports, poster/presentations	Key Professional Skills: CORN1005

Recognise and respect the views and opinions of other team members; negotiating skills	**Primary:** Group seminars, PBL tasks **Secondary/Supplementary:** Work placement experience; industry engagement WRL tasks	A6	P7	Debates, presentations, vivas	Key Professional Skills: CORN1005 Marine Survey Techniques: CORN135
Evaluate performance as an individual and a team member; evaluate the performance of others	**Primary:** Group seminars, PBL tasks, peer assessed presentations **Secondary/Supplementary:** Work placement experience; industry engagement WRL tasks	A6	P7	Debates, SWOT self-analysis presentations, vivas	Marine Survey Techniques: CORN135 CORN2018 Marine Vertebrate Biology and Conservation
Employment related skills: Develop the skills necessary for self-managed and lifelong learning (e.g. working independently, time management, organisational, enterprise and knowledge transfer skills) **Threshold standard:** • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident	**Primary:** Work placement, project implementation, PBL tasks **Secondary/Supplementary:** Lectures, guest speakers, visits & Additional lecture information available on VLE- Moodle.	A4, A5	P5, P7	Project report, project logs, SWOT self-analysis	Key Professional Skills: CORN1005

Identify and work towards targets for personal, academic and career development **Threshold standard:** • Have developed basic strategies to enable them to update their knowledge of the biosciences.	**Primary:** Career planning – independent guided learning. Career talks; Tutorials. Resource finding tasks **Secondary/Supplementary:** Guest speakers, visits & Additional lecture information available on VLE- Moodle.	A3, A4, A5, A6	P5, P6, P7	SWOT self-analysis, Literature Review assignments	Key Professional Skills: CORN1005
Develop an adaptable, flexible and effective approach to study and work.	**Primary:** Independent guided learning. Tutorials **Secondary/Supplementary:** Additional lecture information available on VLE- Moodle.	A4	P5, P7	SWOT self-analysis	Key Professional Skills: CORN1005

An exposition for embedding Key Transferable Skills through Teaching & Learning and Assessment at this level of the programme:
The learner can work effectively with others as members of a group and meet obligations to others; they can work within an appropriate ethos and can access and use a range of learning resources; they can evaluate their own strengths and weaknesses within criteria largely set by others; they can manage information, collect appropriate data from a range of sources and undertake simple research tasks with external guidance; they can take responsibility for their own learning with appropriate support; they can communicate effectively and report practical procedures in a clear and concise manner; they can apply given tools / methods accurately and carefully to a well-defined problem and appreciate the complexity of the issues in the discipline.

Practical Skills: Design, plan, conduct and report on investigations, which may involve primary or secondary data (e.g. from a survey database). These data may be obtained through individual or group projects **Threshold standard:** • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate) • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A4, A6	P1,P4,P5	Project report, Field & Lab reports, project logs,	Key Professional Skills: CORN1005
Obtain, record, collate and analyse data using appropriate techniques in the field and/or laboratory, working individually or in a group, as is most appropriate for					

the discipline under study **Threshold standard:** • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate) • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A4, A6	P1,P4,P5	Project report, Field & Lab reports	ALL CORE MODULES
Undertake field and/or laboratory investigations of living systems in a responsible, safe and ethical manner. For example, students must pay due attention to risk assessment, relevant health and safety regulations, issues relating to animal welfare and procedures for obtaining informed consent. In some biosciences,	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A2, A4, A5	P1,P4,P5,P6,P7	Project report, Field & Lab reports	ALL CORE MODULES

students will show that they respect the rights of access, for example, in field work or in order to map the genes of a community, family or group of plants or animals, including humans. They should show sensitivity to the impact of investigations on the environment, on the organisms or subjects under investigation, and on other stakeholders. **Threshold standard:** • Appreciate the interactions of organisms with each other and the environment • Have some understanding of ethical issues and the impact on society of advances in the biosciences • Have developed basic strategies to enable them to update their knowledge of the biosciences.					
An exposition for embedding Practical Skills through Teaching & Learning and Assessment at this level of the programme: Learners will have demonstrated an ability to apply practical skills developed within the course to a wide variety of industry related scenarios and will be required to complete a range of practical based skills assessments throughout this unit.					

Level: 5 BSc (Hons) Applied Marine Zoology					
Definitions of Graduate Attributes and Skills Relevant to this Programme	**Teaching and Learning Strategy / Methods**	**Prog Aims**	**Prog intended Learning Outcomes**	**Range of Assessments**	**Related Core Modules**
Knowledge / Understanding:					

Engagement with the essential facts, major concepts, principles and theories associated with the chosen discipline. Knowledge of the processes and mechanisms that have shaped the natural world in terms, for example, of the spread of time from the geological to the present and of complexity from the environmental to the cellular. The influence on living systems of human activities (and the converse) could also be considered **Threshold standard:** • Describe how organisms are classified and identified • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits its environment. • Describe the place of the organisms studied in the living world. • Have an understanding of the explanation of biological phenomena at a variety of levels (from molecular to ecological systems) and be able to explain how evolutionary theory is relevant to their area of study • Demonstrate awareness of human interactions with natural	**Primary:** lectures, independent guided study, practical workshops **Secondary/Supplementary:** Site visits to animal collections, Natural History Museum, Eden project. Additional lecture information available on VLE- Moodle.	A1,A2, A3, A4	P1, P2, P6	Essays, in class tests, exams, management plans, reports, poster/presentations	Marine Vertebrate Biology and Conservation: CORN2018 Marine Invertebrates: CORN209

populations and ecosystems, including habitat modification, pollution, exploitation and conservation					
Competence in the basic experimental skills appropriate to Zoology and Conservation **Threshold standard:** • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses	**Primary:** Lectures, independent guided study, practical workshops **Secondary/Supplementary:** Visits to Electron Microscope, MBA, guest workshops run by ecological consultants and specialists. Additional lecture information available on VLE- Moodle	A1, A4,	P1, P2,P4, P5	Reports, assessed practicals, in class tests, exams	CORN236 Marine Conservation in Practice Marine Vertebrate Biology and Conservation: CORN2018 Research Methods and GIS for Zoology: CORN276
Familiarity with the terminology, nomenclature and classification systems **Threshold standard:** • Describe how organisms are classified and identified	**Primary:** Lectures, independent guided study, practical workshops **Secondary/Supplementary:** Site visits to animal collections, Natural History Museum, Eden project.	A1	P1,P2	Assessed workshops, in class tests, exams, reports	Fish Ecology: CORN290 Marine Invertebrates: CORN209 Research Methods and GIS for Zoology: CORN276

	Additional lecture information available on VLE- Moodle.				
Knowledge of a range of communication techniques and methodologies relevant to zoology and conservation, including data analysis and the use of statistics **Threshold standard:** • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	**Primary:** Independent guided study, practical workshops, group seminars, group work **Secondary/Supplementary:** Research seminars. Additional lecture information available on VLE- Moodle.	A3, A4, A6	P1, P5, P7	essays management plans, reports, poster/presentations	CORN236 Marine Conservation in Practice Research Methods and GIS for Zoology: CORN276
An exposition for embedding Knowledge and Understanding through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated a given factual and/or conceptual knowledge base with emphasis on the nature of the field of study and appropriate terminology and can demonstrate awareness of ethical issues associated with the subject.					
Cognitive and Intellectual Skills: An appreciation of the complexity and diversity of life processes through the study of organisms, their molecular, cellular and physiological processes, their genetics and evolution, and the interrelationships between them and their environment **Threshold standard:**	**Primary:** Lectures, independent guided study, practical workshops	A1, A3	P1, P2	essays, in class tests, exams, management	ALL CORE MODULES

• Describe the structure, diversity and reproduction of the organisms studied • Describe basic organism structure and diversity • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits it for its environment show knowledge of the basic genetic principles relating to, and evolution of, the organisms studied • Describe the place of the organisms studied in the living world. • Appreciate the importance of the 'behaviour' of the organisms studied. • Demonstrate knowledge of biogeochemical cycles and pathways • Describe and exemplify nutrient and energy flow through individuals, populations and communities • Describe and exemplify patterns of distribution of organisms in relation to biotic and abiotic factors • Demonstrate knowledge of population processes, dynamics	**Secondary/Supplementary:** Research seminars. Additional lecture information available on VLE- Moodle.			plans, reports, poster/presentations	

and interactions, and associated theoretical models • Demonstrate knowledge of community structure, development, biodiversity, and associated theoretical models • Demonstrate awareness of human interactions with natural populations and ecosystems, including habitat modification, pollution, exploitation and conservation					
The ability to read and use appropriate literature with a full and critical understanding, while addressing such questions as content, context, aims, objectives, quality of information, and its interpretation and application **Threshold standard:** • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A2, A3	P1, P3	Literature reviews, essays, reports, presentations.	Research Methods and GIS for Zoology: CORN276
The ability to think independently, set tasks and solve problems.					

Threshold standard: • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses	**Primary:** Independent guided study, practical workshops **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A2, A4	P3, P4, P5, P7	Assessed practicals, in class tests, exams, project report and presentations	Research Methods and GIS for Zoology: CORN276
Analyse, synthesise and summarise information critically, including published research or reports **Threshold standard:** • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A3	P1, P5, P7	Literature reviews, essays, reports, presentations.	Research Methods and GIS for Zoology: CORN276
Obtain and integrate several lines of subject-specific evidence to formulate and test hypotheses **Threshold standard:** • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A3, A4	P4,P5,	Projects Reports, Review article assignments,	Research Methods and GIS for Zoology: CORN276

Recognise the moral and ethical issues of investigations and appreciate the need for ethical standards and professional codes of conduct. **Threshold standard:** • Have some understanding of ethical issues and the impact on society of advances in the biosciences	**Primary:** Lectures, group seminars, independent guided study **Secondary/Supplementary:** Guest speakers, industry visits, work placements. Additional information and tasks available on VLE-Moodle	A2, A5	P3, P6	Debates, presentations, vivas	Research Methods and GIS for Zoology: CORN276
An exposition for embedding Cognitive and Intellectual Skills through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated the ability to analyse with guidance given classifications/guidance, can collect and categorise ideas and information in a predictable and standard format, can evaluate the reliability of data using defined techniques and/or tutor guidance and can apply given tools/methods accurately and carefully to a well-defined problem and begin to appreciate the complexity of the issues.					
Key Transferable Skills: Communicate about their subject appropriately to a variety of audiences using a range of formats and approaches, using appropriate scientific language **Threshold standard:** • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	**Primary:** Independent guided study, practical workshops, group seminars, group work **Secondary/Supplementary:** Research seminars.	A1, A3	P1, P2, P7	essays management plans, reports, poster/presentations	CORN236 Marine Conservation in Practice Research Methods and GIS for Zoology: CORN276

	Additional lecture information available on VLE- Moodle.				
Recognise and respect the views and opinions of other team members; negotiating skills	**Primary:** Group seminars, PBL tasks **Secondary/Supplementary:** Work placement experience; industry engagement WRL tasks	A6	P7	Debates, presentations, vivas	CORN236 Marine Conservation in Practice
Evaluate performance as an individual and a team member; evaluate the performance of others	**Primary:** Group seminars, PBL tasks, peer assessed presentations **Secondary/Supplementary:** Work placement experience; industry engagement WRL tasks	A6	P7	Debates, SWOT self-analysis presentations, vivas	CORN236 Marine Conservation in Practice
Employment related skills: Develop the skills necessary for self-managed and lifelong learning (e.g. working independently, time management, organisational, enterprise and knowledge transfer skills) **Threshold standard:** • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management,	**Primary:** Work placement, project implementation, PBL tasks **Secondary/Supplementary:** Lectures, guest speakers, visits & Additional lecture	A4, A5	P5, P7	Project report, project logs, SWOT self-analysis	CORN236 Marine Conservation in Practice

problem solving, and independence are evident	information available on VLE- Moodle.				
Identify and work towards targets for personal, academic and career development **Threshold standard:** • Have developed basic strategies to enable them to update their knowledge of the biosciences.	**Primary:** Career planning – independent guided learning. Career talks; Tutorials. Resource finding tasks **Secondary/Supplementary:** Guest speakers, visits & Additional lecture information available on VLE- Moodle.	A3, A4, A5, A6	P5, P6, P7	SWOT self-analysis, Literature Review assignments	CORN236 Marine Conservation in Practice
Develop an adaptable, flexible and effective approach to study and work.	**Primary:** Independent guided learning. Tutorials **Secondary/Supplementary:** Additional lecture information available on VLE- Moodle.	A4	P5, P7	SWOT self-analysis	CORN236 Marine Conservation in Practice
An exposition for embedding Key Transferable Skills through Teaching & Learning and Assessment at this level of the programme: The learner can work effectively with others as members of a group and meet obligations to others; they can work within an appropriate ethos and can access and use a range of learning resources; they can evaluate their own strengths and weaknesses within criteria largely set by others; they can manage information, collect appropriate data from a range of sources and undertake simple research tasks with external guidance; they can take responsibility for their own learning					

with appropriate support; they can communicate effectively and report practical procedures in a clear and concise manner; they can apply given tools / methods accurately and carefully to a well-defined problem and appreciate the complexity of the issues in the discipline.					
Practical Skills: Design, plan, conduct and report on investigations, which may involve primary or secondary data (e.g. from a survey database). These data may be obtained through individual or group projects **Threshold standard:** • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate) • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A4, A6	P1,P4,P5	Project report, Field & Lab reports, project logs,	CORN236 Marine Conservation in Practice
Obtain, record, collate and analyse data using appropriate techniques in the field					

and/or laboratory, working individually or in a group, as is most appropriate for the discipline under study **Threshold standard:** • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate) • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle :	A4, A6	P1,P4,P5	Project report, Field & Lab reports	CORN236 Marine Conservation in Practice Marine Vertebrate Biology and Conservation: CORN2018 Research Methods and GIS for Zoology: CORN276
Undertake field and/or laboratory investigations of living systems in a responsible, safe and ethical manner. For example, students must pay due attention to risk assessment, relevant health and safety regulations, issues relating to animal welfare and					

procedures for obtaining informed consent. In some biosciences, students will show that they respect the rights of access, for example, in field work or in order to map the genes of a community, family or group of plants or animals, including humans. They should show sensitivity to the impact of investigations on the environment, on the organisms or subjects under investigation, and on other stakeholders. **Threshold standard:** • Appreciate the interactions of organisms with each other and the environment • Have some understanding of ethical issues and the impact on society of advances in the biosciences • Have developed basic strategies to enable them to update their knowledge of the biosciences.	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A2, A4, A5	P1,P4,P5,P6,P7	Project report, Field & Lab reports	CORN236 Marine Conservation in Practice Marine Vertebrate Biology and Conservation: CORN2018 Research Methods and GIS for Zoology: CORN276
An exposition for embedding Practical Skills through Teaching & Learning and Assessment at this level of the programme: Learners will have demonstrated an ability to apply practical skills developed within the course to a wide variety of industry related scenarios and will be required to complete a range of practical based skills assessments throughout this unit.					

Level: 6 BSc (Hons) Applied Marine Zoology

Definitions of Graduate Attributes and Skills Relevant to this Programme	Teaching and Learning Strategy / Methods	Prog Aims	Prog intended Learning Outcomes	Range of Assessments	Related Core Modules
Knowledge / Understanding: Engagement with the essential facts, major concepts, principles and theories associated with the chosen discipline. Knowledge of the processes and mechanisms that have shaped the natural world in terms, for example, of the spread of time from the geological to the present and of complexity from the environmental to the cellular. The influence on living systems of human activities (and the converse) could also be considered **Threshold standard:** • Describe how organisms are classified and identified • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits its environment. • Describe the place of the organisms studied in the living world. • Have an understanding of the explanation of biological phenomena at a variety of levels (from molecular to ecological systems) and be able to explain	**Primary:** lectures, independent guided study, practical workshops **Secondary/Supplementary:** Site visits to animal collections, Natural History Museum, Eden project. Additional lecture information available on VLE- Moodle.	A1,A2, A3, A4	P1, P2, P6	essays, in class tests, exams, management plans, reports, poster/presentations	Monitoring Marine Ecosystems: CORN316

how evolutionary theory is relevant to their area of study • Demonstrate awareness of human interactions with natural populations and ecosystems, including habitat modification, pollution, exploitation and conservation					
Competence in the basic experimental skills appropriate to Zoology and Conservation **Threshold standard:** • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses	**Primary:** Lectures, independent guided study, practical workshops **Secondary/Supplementary:** Visits to Electron Microscope, MBA, guest workshops run by ecological consultants and specialists. Additional lecture information available on VLE- Moodle	A1, A4,	P1, P2,P4, P5	Reports, assessed practicals, in class tests, exams	Honours project: CORN310 Monitoring Marine Ecosystems: CORN316
Familiarity with the terminology, nomenclature and classification systems **Threshold standard:** • Describe how organisms are classified and identified	**Primary:** Lectures, independent guided study, practical workshops	A1	P1,P2	Assessed workshops, in class tests, exams, reports	Monitoring Marine Ecosystems: CORN316

	Secondary/Supplementary: Site visits to animal collections, Natural History Museum, Eden project. Additional lecture information available on VLE- Moodle.				
Knowledge of a range of communication techniques and methodologies relevant to zoology and conservation, including data analysis and the use of statistics **Threshold standard:** • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	**Primary:** Independent guided study, practical workshops, group seminars, group work **Secondary/Supplementary:** Research seminars. Additional lecture information available on VLE- Moodle.	A3, A4, A6	P1, P5, P7	essays management plans, reports, poster/presentations	Honours Project: CORN310
An exposition for embedding Knowledge and Understanding through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated a given factual and/or conceptual knowledge base with emphasis on the nature of the field of study and appropriate terminology and can demonstrate awareness of ethical issues associated with the subject.					
Cognitive and Intellectual Skills: An appreciation of the complexity and diversity of life processes through the study of organisms, their molecular, cellular and physiological processes, their					

genetics and evolution, and the interrelationships between them and their environment **Threshold standard:** • Describe the structure, diversity and reproduction of the organisms studied • Describe basic organism structure and diversity • Describe mechanisms for the life processes and appreciate how the physiology of an organism fits it for its environment show knowledge of the basic genetic principles relating to, and evolution of, the organisms studied • Describe the place of the organisms studied in the living world. • Appreciate the importance of the 'behaviour' of the organisms studied. • Demonstrate knowledge of biogeochemical cycles and pathways • Describe and exemplify nutrient and energy flow through individuals, populations and communities • Describe and exemplify patterns of distribution of organisms in	**Primary:** Lectures, independent guided study, practical workshops **Secondary/Supplementary:** Research seminars. Additional lecture information available on VLE- Moodle.	A1, A3	P1, P2	essays, in class tests, exams, management plans, reports, poster/presentations	ALL CORE MODULES

relation to biotic and abiotic factors • Demonstrate knowledge of population processes, dynamics and interactions, and associated theoretical models • Demonstrate knowledge of community structure, development, biodiversity, and associated theoretical models • Demonstrate awareness of human interactions with natural populations and ecosystems, including habitat modification, pollution, exploitation and conservation					
The ability to read and use appropriate literature with a full and critical understanding, while addressing such questions as content, context, aims, objectives, quality of information, and its interpretation and application **Threshold standard:** • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A2, A3	P1, P3	Literature reviews, essays, reports, presentations.	Honours Project: CORN310

The ability to think independently, set tasks and solve problems. **Threshold standard:** • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses	**Primary:** Independent guided study, practical workshops **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A2, A4	P3, P4, P5, P7	Assessed practicals, in class tests, exams, project report and presentations	Honours Project: CORN310
Analyse, synthesise and summarise information critically, including published research or reports **Threshold standard:** • Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A3	P1, P5, P7	Literature reviews, essays, reports, presentations.	Honours Project: CORN310 GIS and Marine Environmental Management: CORN317
Obtain and integrate several lines of subject-specific evidence to formulate and test hypotheses **Threshold standard:** • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a	**Primary:** Lectures, independent guided study, practical workshops, group seminars	A3, A4	P4,P5,	Projects Reports, Review article assignments,	Honours Project: CORN310

project) within a supported framework in which qualities such as time management, problem solving, and independence are evident	**Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle				GIS and Marine Environmental Management: CORN317
Recognise the moral and ethical issues of investigations and appreciate the need for ethical standards and professional codes of conduct. **Threshold standard:** • Have some understanding of ethical issues and the impact on society of advances in the biosciences	**Primary:** Lectures, group seminars, independent guided study **Secondary/Supplementary:** Guest speakers, industry visits, work placements. Additional information and tasks available on VLE-Moodle	A2, A5	P3, P6	Debates, presentations, vivas	Honours Project: CORN310 GIS and Marine Environmental Management: CORN317
An exposition for embedding Cognitive and Intellectual Skills through Teaching & Learning and Assessment at this level of the programme: The learner has demonstrated the ability to analyse with guidance given classifications/guidance, can collect and categorise ideas and information in a predictable and standard format, can evaluate the reliability of data using defined techniques and/or tutor guidance and can apply given tools/methods accurately and carefully to a well-defined problem and begin to appreciate the complexity of the issues.					
Key Transferable Skills: Communicate about their subject appropriately to a variety of audiences using a range of formats and approaches, using appropriate scientific language **Threshold standard:**	**Primary:**	A1, A3	P1, P2, P7	essays	

• Be able to access bioscience information from a variety of sources and to communicate the principles in a manner appropriate to the programme of study	Independent guided study, practical workshops, group seminars, group work **Secondary/Supplementary:** Research seminars. Additional lecture information available on VLE- Moodle.			management plans, reports, poster/presentations	Honours Project: CORN310 GIS and Marine Environmental Management: CORN317
Recognise and respect the views and opinions of other team members; negotiating skills	**Primary:** Group seminars, PBL tasks **Secondary/Supplementary:** Work placement experience; industry engagement WRL tasks	A6	P7	Debates, presentations, vivas	GIS and Marine Environmental Management: CORN317
Evaluate performance as an individual and a team member; evaluate the performance of others	**Primary:** Group seminars, PBL tasks, peer assessed presentations **Secondary/Supplementary:** Work placement experience; industry engagement WRL tasks	A6	P7	Debates, SWOT self-analysis presentations, vivas	GIS and Marine Environmental Management: CORN317
Employment related skills: Develop the skills necessary for self-managed and lifelong learning (e.g. working independently, time management, organisational, enterprise and knowledge transfer skills) **Threshold standard:**	**Primary:**	A4, A5	P5, P7		

• Be able to plan, execute and present an independent piece of hypothesis-driven work (eg a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident	Work placement, project implementation, PBL tasks **Secondary/Supplementary:** Lectures, guest speakers, visits & Additional lecture information available on VLE- Moodle.			Project report, project logs, SWOT self-analysis	GIS and Marine Environmental Management: CORN317
Identify and work towards targets for personal, academic and career development **Threshold standard:** • Have developed basic strategies to enable them to update their knowledge of the biosciences.	**Primary:** Career planning – independent guided learning. Career talks; Tutorials. Resource finding tasks Secondary/Supplementary: Guest speakers, visits & Additional lecture information available on VLE- Moodle.	A3, A4, A5, A6	P5, P6, P7	SWOT self-analysis, Literature Review assignments	GIS and Marine Environmental Management: CORN317
Develop an adaptable, flexible and effective approach to study and work.	**Primary:** Independent guided learning. Tutorials **Secondary/Supplementary:** Additional lecture	A4	P5, P7	SWOT self-analysis	GIS and Marine Environmental Management: CORN317

	information available on VLE- Moodle.				
An exposition for embedding Key Transferable Skills through Teaching & Learning and Assessment at this level of the programme: The learner can work effectively with others as members of a group and meet obligations to others; they can work within an appropriate ethos and can access and use a range of learning resources; they can evaluate their own strengths and weaknesses within criteria largely set by others; they can manage information, collect appropriate data from a range of sources and undertake simple research tasks with external guidance; they can take responsibility for their own learning with appropriate support; they can communicate effectively and report practical procedures in a clear and concise manner; they can apply given tools / methods accurately and carefully to a well-defined problem and appreciate the complexity of the issues in the discipline.					
Practical Skills: Design, plan, conduct and report on investigations, which may involve primary or secondary data (e.g. from a survey database). These data may be obtained through individual or group projects **Threshold standard:** • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate) • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A4, A6	P1,P4,P5	Project report, Field & Lab reports, project logs,	Monitoring Marine Ecosystems: CORN316 GIS and Marine Environmental Management: CORN317 Honours Project: CORN310

• Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses					
Obtain, record, collate and analyse data using appropriate techniques in the field and/or laboratory, working individually or in a group, as is most appropriate for the discipline under study **Threshold standard:** • Be able to record data accurately, and to carry out basic manipulation of data (including qualitative data and some statistical analysis, when appropriate) • Be able to plan, execute and present an independent piece of hypothesis-driven work (e.g. a project) within a supported framework in which qualities such as time management, problem solving, and independence are evident • Have ability in a range of practical bioscience techniques, including data collection, analysis and interpretation of those data, and testing of hypotheses	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A4, A6	P1,P4,P5	Project report, Field & Lab reports	Monitoring Marine Ecosystems: CORN316 GIS and Marine Environmental Management: CORN317 Honours Project: CORN310

Undertake field and/or laboratory investigations of living systems in a responsible, safe and ethical manner. For example, students must pay due attention to risk assessment, relevant health and safety regulations, issues relating to animal welfare and procedures for obtaining informed consent. In some biosciences, students will show that they respect the rights of access, for example, in field work or in order to map the genes of a community, family or group of plants or animals, including humans. They should show sensitivity to the impact of investigations on the environment, on the organisms or subjects under investigation, and on other stakeholders. **Threshold standard:** • Appreciate the interactions of organisms with each other and the environment • Have some understanding of ethical issues and the impact on society of advances in the biosciences • Have developed basic strategies to enable them to update their knowledge of the biosciences.	**Primary:** Lectures, independent guided study, practical workshops, group seminars **Secondary/Supplementary:** Additional information and tasks available on VLE-Moodle	A2, A4, A5	P1,P4,P5,P6,P7	Project report, Field & Lab reports	Monitoring Marine Ecosystems: CORN316 GIS and Marine Environmental Management: CORN317 Honours Project: CORN310
An exposition for embedding Practical Skills through Teaching & Learning and Assessment at this level of the programme: Learners will have demonstrated an ability to apply practical skills developed within the course to a wide variety of industry related scenarios and will be required to complete a range of practical based skills assessments throughout this unit.					

PS14. Work Based/ Related Learning

WBL is an essential element of Foundation Degrees and therefore needs to be detailed here. However, for all types of HE Programmes there should be an element of employability focus through, at least, Work Related Learning, and therefore the following is applicable for all:

BSc (Hons) Applied Marine Zoology					
WBL/WRL Activity:	**Logistics**	**Prog Aim**	**Prog Intended LO**	**Range of Assessments**	**Related Core Module(s)**
Students to complete mandatory 40hrs, recommended 100hrs work experience in a relevant placement	Students find suitable placements with support of CCN tutor and work experience coordinator	A2, A4, A5, A6	P3, P4, P6	Poster presentation	CORN1005 - Key Professional Skills CORN236 Marine Conservation in Practice
Develop a career action plan	Within curriculum and tutorials	A2, A4	P7,	Career development plan	CORN1005 - Key Professional Skills
Develop skills in interview techniques, CV and application writing	Within curriculum	A2, A4	P7	Mock interview	CORN1005 - Key Professional Skills
Guest lecturers from specialist employed within the marine environment sector	A variety of individuals with the marine sector contribute across the programme	A1, A3, A5, A6	P1, P3, P6	Range of coursework and exams	Throughout programme
Develop practical techniques in marine survey techniques and equipment	Field and lab work	A1, A4	P4, P5	Marine survey report Marine survey proposal	Particularly in: CORN135 - Marine Survey Techniques, CORN316 - Monitoring Marine Ecosystems
An exposition to explain this map: Whilst the entire programme is intended to develop the practical and employability skills required of an employee within the marine zoology sector the focus associated with an extended period of work experience has a proven track record of ensuring that the successful graduate emerges with these essential skills and establishes a proven track record of employability that is often in demand from employers.					