code	Date	Time	Location	Contact	Practical
BS-01	16/10/2019	10.00-13.00	BrambellC4	Anil Shirsat	BSX 2019
BS-02	25/10/2019	10.00-17.00	BrambellC4	Anil Shirsat	BSX 2019
BS-03		09.00-13.00	Coach to Treborth	Rosanna Robinson	BSX1030
BS-04		10.00-13.00	Brambell A1 lab	James McDonald	BSX1030
BS-05		14.00-17.00	Brambell A1 lab	James McDonald	BSX1030
BS-06		10.00-13.00	Brambell A1 lab	Simon Webster	BSX1030
BS-07	21/10/2019	14.00-17.00	Brambell A1 lab	Simon Webster	BSX1030
BS-08	11/11/2019	10.00-13.00	Brambell A1 lab	Simon Webster	BSX1030
BS-09	11/11/2019	14.00-17.00	Brambell A1 lab	Simon Webster	BSX1030
BS-10	19/11/2019	10.00-13.00	Brambell A1 lab	Simon Webster	BSX1030
BS-11	19/11/2019	14.00-17.00	Brambell A1 lab	Simon Webster	BSX1030
BS-12	03/12/2019	10.00-13.00	Brambell A1 lab	Rosanna Robinson	BSX1030
BS-13	03/12/2019	14.00-17.00	Brambell A1 lab	Rosanna Robinson	BSX1030
BS-14				Rosanna Robinson	BSX1030
BS-15	21/10/2019	8 AM -6 PM	FIELD TRIP	Alexander Georgiev	BSX3153
BS-16	05/11/2019	2PM - 5PM	THODAY 8 & 9	Alexander Georgiev	BSX3153
	,,				
BS-17	06/11/2019	10 AM - 1PM	THODAY 8 & 9	Alexander Georgiev	BSX3153
	55, 11, 2015				

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BS-18	10/10/2019	2PM - 5 PM	BRAMBELL MUSEUM	Isabelle Winder	BSX3153
DC 10	11/10/2010			Lashalla Minalan	DCV2452
BS-19	11/10/2019	2 PM - 5 PM	BRAMBELL MUSEUM	Isabelle Winder	BSX3153
BS-20	14/11/2019	10 AM - 1PM	THODAY F8 AND 9	Isabelle Winder	BSX3153
20 20	1,11,2013	107.001 11.00			55/10 100
BS-21	15/11/2019	2PM - 5 PM	THODAY F8 AND 9	Isabelle Winder	BSX3153
BS-22	Thurs 26th Sept	10:00-13:00	Brambell A1	John Mulley	BSX2022
BS-23	Thurs 26th Sept	14:00-17:00	Brambell A1	John Mulley	BSX2022
					201/2022
BS-24	Thurs 3rd Oct	10:00-13:00	Brambell A1	John Mulley	BSX2022
BS-25	Thurs 2rd Oct	14.00 17.00	Bramball A1	John Mullov	ρενοοο
83-25	Thurs 3rd Oct	14:00-17:00	Brambell A1	John Mulley	BSX2022
BS-26	Tues 12th Nov	10:00-13:00	Brambell B1	Charles Bishop	BSX2022
D3-20		10.00-13.00			572022
BS-27	Tues 12th Nov	14:00-17:00	Brambell B1	Charles Bishop	BSX2022
_					
BS-28	Thurs 14th Nov	10:00-13:00	Brambell B1	Charles Bishop	BSX2022
BS-29	Thurs 14th Nov	14:00-17:00	Brambell B1	Charles Bishop	BSX2022
BS-30	Thurs 28th Nov	10:00-13:00	Brambell A1	Anita Malhotra	BSX2022
	Thurs 28th Nov	14:00-17:00	Brambell A1	Anita Malhotra	BSX2022
	21/10/2019	10-1pm	A1	Simon Webster	BSX1030
BS-33		2-5pm	A1	Simon Webster	BSX1030
BS-34	11/11/2019		A1	Simon Webster	BSX1030
BS-35	11/11/2019		A1	Simon Webster	BSX1030
BS-36	19/11/2019	10-1pm	A1	Simon Webster	BSX1030

BS-37	19/11/2019	2-5pm	A1	Simon Webster	BSX1030
BS-38	10/08/2109	10-1pm	B1	Simon webster	BSX3145
DC 20	1 4 / 10 / 21 00	2.5	54	Circu and Milehoute a	DCV2445
BS-39	14/10/2109		B1	Simon Webster	BSX3145
BS-40	11/11/2019	· · · · · · · · · · · · · · · · · · ·	B1	Simon Webster	BSX3145
BS-41	20/11/2019	10-1pm	B1	Simon Webster	BSX3145
BS-42	27/11/2019	10-1nm	B1	Simon Webster	BSX3145
BS-43	25/11/2019		A1	Simon Webster	BNS1004
BS-44	25/11/2019		A1	Simon Webster	BNS1004
BS-44 BS-45		9am to 4pm	Field Trip	Alison Cameron	BSX 3157-Ornithology
			Field trip if weather was bad and it was cancelled on 9th of October, or group work on campus (venue TBC) if weather was good and field work was completed on the		
BS-46		9am to 4pm	9th	Alison Cameron	BSX 3157-Ornithology
BS-47	07/11/2019		Brambell Museum	Alison Cameron	BSX 3157-Ornithology
BS-48	15/11/2019		Thoday F27	Alison Cameron	BSX 3157-Ornithology
BS-49	02/11/2019		Field Trip	Charles Bishop	BSX 3157-Ornithology
BS-50		14.00-17.00	Bram_C4	Alex Papadopulos	BSX2019
BS-51	20/11/2019	10.00-13.00	Bram_C4	Alex Papadopulos	BSX2019
BS-52	30/09/2019	16:00-18:00	WhelPC_003+002	Si Creer	BNS2002

BS-53	03/10/2019	15:00-17:00	Arts_CR1	Si Creer	BNS2002
BS-54	04/10/2019	9:00-11:00	WhelPC_003+002	Si Creer	BNS2002
BS-55	04/10/2019	15:00-17:00	WhelPC_003+002	Si Creer	BNS2002
BS-56		16:00-18:00	WhelPC_003+002	Si Creer	BNS2002
BS-57	08/10/2019	9:00-11:00	WheIPC_003+002	Si Creer	BNS2002

BS-58	08/10/2019	13:00-15:00	WhelPC 003+002	Si Creer	BNS2002
0000	00/10/2013	15.00 15.00			
BS-59	10/10/2019	9:00-11:00	WhelPC 003+002	Si Creer	BNS2002
BS-60	09/10/2019	9:00-12:00	Arts_CR1	Graeme Shannon	BNS3004
BS-61	11/10/2019	14:00-17:00	Arts_CR1	Graeme Shannon	BNS3004
BS-62	15/10/2019	11.00-13.00	AD-035	Graeme Shannon	BNS3004
BS-63	18/10/2019		AD_013	Graeme Shannon	BNS3004
BS-64	19/11/2019		Bram B1	Henk Braig	BSX-3159
BS-65	26/11/2019		Bram A1	Henk Braig	BSX-3159
BS-66	03/12/2019	10:00-13:00	Bram B1	Henk Braig	BSX-3159
BS-67	07/10/2019	1300-1500	Management Centre, Alun 2.01	Dan Thornham	BSX2021
BS-68	08/10/2019	1300-1500	Wheldon Teaching space 5	Dan Thornham	BSX2021
BS-69	08/10/2019	1600-1800	Thoday F1	Dan Thornham	BSX2021

BS-70	09/10/2019	1100-1300	Thoday F1	Dan Thornham	BSX2021
5570	05/10/2015	1100 1500	Wheldon Computer lab		05/2021
BS-71	14/10/2019	1400-1600	002	Dan Thornham	BSX2021
5571	14/10/2015	1400 1000	Wheldon Computer lab		55/2021
BS-72	14/10/2019	1600-1800	002	Dan Thornham	BSX2021
5572	14/10/2015	1000 1000	Wheldon Computer lab		55/2021
BS-73	15/10/2019	1000-1200	002	Dan Thornham	BSX2021
5575	13/10/2013	1000 1200	Wheldon Computer lab		5572021
BS-74	17/10/2019	0900-1100	002	Dan Thornham	BSX2021
5571	17/10/2013	0500 1100	Wheldon Teaching space		
BS-75	04/11/2019	1300-1500	5	Dan Thornham	BSX2021
20 / 3	0 1/ 11/ 2013	1000 1000	Wheldon Teaching space		
BS-76	05/11/2019	1300-1500	5	Dan Thornham	BSX2021
5570	00,11,2010	1000 1000	5		
BS-77	05/11/2019	1600-1800	Thoday F1	Dan Thornham	BSX2021
	00, 11, 1010	2000 2000			
BS-78	06/11/2019	1100-1300	Thoday F1	Dan Thornham	BSX2021
	,,		Wheldon Computer lab		
BS-79	21/11/2019	1100-1300	002	Dan Thornham	BSX2021
			Main Arts Computer lab		
BS-80	21/11/2019	1400-1600	1	Dan Thornham	BSX2021
			Main Arts Computer lab		
BS-81	21/11/2019	1600-1800	1	Dan Thornham	BSX2021
			Wheldon Computer lab		
BS-82	22/11/2019	1100-1300	002	Dan Thornham	BSX2021
			Wheldon Computer lab		
BS-83	02/12/2019	1400-1600	002	Dan Thornham	BSX2021
			Wheldon Computer lab		
BS-84	02/12/2019	1600-1800	002	Dan Thornham	BSX2021
			Wheldon Computer lab		
BS-85	03/12/2019	1000-1200	002	Dan Thornham	BSX2021
			Wheldon Computer lab		
BS-86	05/12/2019	0900-1100	002	Dan Thornham	BSX2021
			Wheldon Computer lab		
BS-87	09/12/2019	1530-1800	002	Dan Thornham	BSX2021
			Wheldon Computer lab		
BS-88	11/12/2019	1000-1230	002	Dan Thornham	BSX2021

			Wheldon Computer lab		
BS-89	13/12/2019	1300-1530	002	Dan Thornham	BSX2021
			Wheldon Computer lab		
BS-90	13/12/2019	1530-1800	002	Dan Thornham	BSX2021
BS-95	15/10/2019	1200-1400	tbc	Dan Thornham	bsx-2021
BS-96				j.smith@bangor.ac.uk	BNS1002
BS-97				j.smith@bangor.ac.uk	BNS1002
BS-98				j.smith@bangor.ac.uk	BNS1002

				Total hours
				(=demonstrators
			Confirmed	
		Downowstwatere		-
		Demonstrators		length, for staff
Skills	Other Notes	needed	tors	use)
			Catarina	
Analysis of human single nucleotide polymorphisms: DNA extractions			Gomes	
from cheek , PCR, Restriction enzyme analysis, Gel electrophoresis	No marking	1	Seidi	3
			Catarina	
Analysis of human single nucleotide polymorphisms: DNA extractions			Gomes	
from cheek , PCR, Restriction enzyme analysis, Gel electrophoresis	No marking	1	Seidi	7
any wildlife ID and demonstrations: e.g. birdspotting; pond dipping,	Introduce small groups of students,			
quadrat throwing, tree-identification, pitfall trapping - need to sugggest	informally to different aspects of wildlife in			
activity and discuss with Rosanna in advance.	Treborth	10		40
Microbiology - Gram stain	No marking	3		9
Microbiology - Gram stain	No marking	3		9
Arthropod diversity	No marking	3		9
Arthropod diversity	No marking	3		9
Arthropod diversity 2	No marking	3		9
Arthropod diversity 2	No marking	3	,	9
Mussel cilliary movement	No marking	3		9
Mussel cilliary movement	No marking	3		9
Animal behaviour	Marking-see below	3	,	9
Animal behaviour	Marking- see below	3		9
	Marking (+ training) approx 200 reports, 20-			
Practical reports	30 mins each	up to 10		100
			1	
Monkey watching: Field work; behavioural observation techniques (focal	No marking; must attend a 1 hour prep			
animal sampling, group scan sampling); Primate behaviour	session TBA before the trip	4		40
r 0,0 - p p 0,,			1	
	No marking; mandatory 1 hour briefing			
Behavioral data analysis: Analysis of simple animal activity budget data;	before the first practical; must be able to			
Excel pivot tables; visual presentation of data	attend all three sessions	2		7
		2		,
	No marking; mandatory 1 hour briefing			
Behavioural data analysis: Analysis of simple animal activity budget data;	before the first practical; must be able to			
		- -		-
Excel pivot tables; visual presentation of data	attend all three sessions	Ζ		/

	1		1
	No marking; mandatory 1 hour briefing		
Assisting with a museum practical on primate morphology (some basic	before the first practical; must be able to		
familiarity with mammal skeletal structure would be useful)	attend all three sessions	2	7
Assisting with a museum practical on primate morphology (some basic familiarity with mammal skeletal structure would be useful)	No marking; mandatory 1 hour briefing before the first practical; must be able to attend all three sessions	2	7
GIS	No marking; mandatory 1 hour briefing before the first practical; must be able to attend all three sessions	2	7
GIS	No marking; mandatory 1 hour briefing before the first practical; must be able to attend all three sessions	2	7
Chordates, early vertebrates, jawless fish - observation and drawing,			
some basic calculations	No marking	3	9
Chordates, early vertebrates, jawless fish - observation and drawing,			
some basic calculations	No marking	3	9
Fish diversity - morphological comaprison of three fish species,			
production of scientific drawings	Marking	3	9
Fish diversity - morphological comaprison of three fish species,			
production of scientific drawings	Marking	3	9
Chicken Dissection - functional anatomy of birds and internal organs,			
production of scientific drawings	marking	3	9
Chicken Dissection - functional anatomy of birds and internal organs,			
production of scientific drawings	marking	3	9
Chicken Dissection - functional anatomy of birds and internal organs,			
production of scientific drawings	marking	3	9
Chicken Dissection - functional anatomy of birds and internal organs,			
production of scientific drawings	marking	3	9
Mammal & Reptile & Amphibian diversity	no marking	1	3
Mammal & Reptile & Amphibian diversity	no marking	1	3
Arthropod diversity	No marking	3	9
Arthropod diversity	No marking	3	9
Arthropod diversity 2	No marking	3	9
Arthropod diversity 2	No marking	3	9
Mussel cilliary movement	No marking	3	9

Mussel cilliary movement	No marking	3	9
Dogfish morphology and internal anatomy, dissections, drawing,			
interpretation			
Trout morphology and internal anatomy, dissections, drawing,			
interpretation	No marking	2	6
GnRH gene expression, RNA purif.	No marking	2	6
GnRH gene expression, cDNA, PCR	No marking	2	6
GnRH gene expression, electrophoresis, interpretation of results,			
bioinformatics	No marking	2	6
Onion root mitosis	Marking	3	9
Onion root mitosis	Marking	3	9
Cors Ddyga Reserve Management plan	1 hour prep time	2	16
Cors Ddyga Reserve Management plan		2	16
Bird Species Poster Session	2 hours marking time	2	8
Reserve Management Plan Group talks and Discussion Session		2	6
Visit to Raven roost at Newburgh Forest	no marking	1	5.5
Plant Molecular Biology (DNA extractions/PCR)	No marking	2	6
Plant Molecular Biology (DNA extractions/PCR)	No marking	2	6
		Abdullah Munawar Rafiq; G Kirthana Pillay; Pau	
Spp. Delimitation/bioinformatics	Marking	3 George	2

		Abdullah
		Munawar
		Rafiq; G
		Kirthana
		Pillay; Paul
Spp. Delimitation/bioinformatics	Marking	3 George 2
		Abdullah
		Munawar
		Rafiq; G
		Kirthana
		Pillay; Paul
Spp. Delimitation/bioinformatics	Marking	3 George 2
		Abdullah
		Munawar
		Rafiq; G
		Kirthana
		Pillay; Paul
Spp. Delimitation/bioinformatics	Marking	3 George 2
		Abdullah
		Munawar
		Rafiq; G
		Kirthana
		Pillay; Paul
Spp. Delimitation/bioinformatics	Marking	3 George 2
		Abdullab
		Abdullah
		Munawar Bafire C
		Rafiq; G
		Kirthana
		Pillay; Paul
Spp. Delimitation/bioinformatics	Marking	3 George 2

			г	
			Abdullah	
			Munawar	
			Rafiq; G	
			Kirthana	
			Pillay; Paul	
Spp. Delimitation/bioinformatics	Marking	3		2
			Ceorge	
			Abdullah	
			Munawar	
			Rafiq; G	
			Kirthana	
			Pillay; Paul	
Spp. Delimitation/bioinformatics	Marking	3		2
			Owain	
			Barton &	
			Amy	
R statistics package	No marking	2	Gresham	3
			Owain	
			Barton &	
			Amy	
R statistics package	No marking	2	Gresham	3
			Owain	
			Barton &	
			Amy	
R statistics package	No marking	2		2
			Owain	
			Barton &	
			Amy	
R statistics package	No marking	2	Gresham	2
Crabs and parasitic castration	No marking	1		3
Fish parasites: dogfish, mackerel	No marking	1		3
Microscopy of blood parasites	No marking	1		3
	please be available for a prep meeting the			
Basic statistics - data types; non/parametric data	week before the workshop/s	2	ļ ļ	4
	please be available for a prep meeting the			
Basic statistics - data types; non/parametric data	week before the workshop/s	2		4
	please be available for a prep meeting the			
Basic statistics - data types; non/parametric data	week before the workshop/s	2		4

	please be available for a prep meeting the		
Basic statistics - data types; non/parametric data	week before the workshop/s	2	4
	please be available for a prep meeting the		
Basic statistics - choosing tests; drawing graphs	week before the workshop/s	2	4
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	please be available for a prep meeting the		
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	please be available for a prep meeting the		
Basic statistics - choosing tests; drawing graphs	week before the workshop/s	2	4
	please be available for a prep meeting the		
Basic statistics - choosing tests; drawing graphs	week before the workshop/s	2	4
	please be available for a prep meeting the		
Basic statistics - interpreting & reporting results	week before the workshop/s	2	4
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Basic statistics - interpreting & reporting results	week before the workshop/s	2	4
	please be available for a prep meeting the		
Basic statistics - interpreting & reporting results	week before the workshop/s	2	4
	please be available for a prep meeting the		
invigilation	week before the workshop/s	2	4
	please be available for a prep meeting the		
invigilation	week before the workshop/s	2	4

	please be available for a prep meeting the		
invigilation	week before the workshop/s	2	4
	please be available for a prep meeting the		
invigilation	week before the workshop/s	2	4
critical evaluation of written science; marking essays on a variety of topics	Marking only	5 to 10	90
	Full training will be available and should be		
	attended (an hour in the week before).		
Ability to interpret skulls and morphology (though full training will be	Marking could be available if willing -		
given)	would be helpful	5	10
	Full training will be available. Marking		
Ability to interpret skulls and morphology (though full training will be	could be available if willing - would be		
given)	helpful.	5	10
	Full training will be available. Marking		
Ability to interpret skulls and morphology (though full training will be	could be available if willing - would be		
given)	helpful	5	10