Short-Term Study Abroad Program Information

Please provide the following information:	
Study Abroad Program Name:	Biotechnology in Scotland
Study Abroad (SABD) Course ID:	SABD 1314
Study Abroad (SABD) Course CRN:	TBD
Semester Program will be Offered:	Summer 2023
Program Director/Contact Name:	David Blum
Program Director/Contact Phone Number:	706-542-1035 / 615-830-4013 (cell)
Program Director/Contact Email Address:	<u>blum@uga.edu</u>
Program Start Date (First meeting with enrolled students):	16-Jun-23
Program End Date (Last meeting with enrolled students):	11-Jul-23
Travel Start Date:	16-Jun-23
Travel End Date:	11-Jul-23
Anticipated Number of Total Students Participating in Program:	25
Anticipated Number of UGA Students:	24
Anticipated Number of Transient Students:	1
Anticipated Number of Undergraduate Students in the Program:	25
Total Number of Credit Hours Taken by Each Undergraduate Student:	7
Anticipated Number of Graduate Students in the Program:	0
Total Number of Credit Hours Taken by Each Graduate Student:	7

Please list each course offered through the program on a separate row below:

Course Title	Course Prefix	Course Number	Credit Hours	Schedule Type	Instructor(s)	Department of Instructor(s)	Course Start Date	Course End Date	Total Lecture Hours	Total Field/ Lab Hours	Total Contact Hours**
Bioprocess Technology	BCMB	4030L	4	Supervised Lab	Blum	Biochemistry	6/17/2023	7/11/2023	38.0	32.0	54.0
Special Topics in International Business	INTB	5100	3	Seminar	Bramorski	Management	6/17/2023	7/11/2023	35.0	7.0	38.5

*Please work with department schedulers and OIE to ensure that all academic courses are scheduled in the same Part of Term as the program SABD course.

**Total Contact Hours = Total Lecture Hours + (Total Field Hours Courses require 12.5 contact hours for each credit hour earnec

Please also complete the Academic Itinerary found on the second worksheet of this document.

For questions, please contact the Office of Curriculum Systems at csabroad@uga.edu or 706-542-6358.

Sample Academic Itinerary

Biotechnology in Scotland SABD 1314	
June 17 - July 11, 2023	
Instructor	Course(s) Taught
Dr. David Blum	BCMB 4030L
Dr. Tom Bramorski	INTB 5100

 $\ensuremath{^*\text{All}}\xspace$ courses should be taught independently. Please include individual class days and times for each course.

**If multiple courses are offered in the program, please use a new column for each course

			Contact Hours				
Date/Time	Activity Description*	Instructor(s)	BCMB	4030L	INTB 5100		
Saturday, April 16	Pre-departure		Lecture	Field	Lecture	Field	
forning	Program orientation	Dr. Blum	1.0				
Norming		Dr. Bramorski	1.0		1.0		
		Di. Diamorski			1.0		
Afternoon	Pre-departure instructions - Study Abroad general meeting	Dr. Blum	1.0				
		Dr. Bramorski			1.0		
Evening	Pre-departure lecture - Scotland BCMB meeting	Dr. Blum	1.0				
•							
	Pre-departure lecture - Scotland INTB meeting	Dr. Bramorski			1.0		
Saturday, June 17	Day 1: Arrive in Edinburgh		Lecture	Field	Lecture	Field	
A							
Morning	Arrive from Atlanta						
	API organized airport reception with transfer to accommodations						
Afternoon	Accommodations check in Lunch on own	Dr. Blum					
Altemoon							
	API health, safety and cultural orientation						
Evening	Free evening to settle in	Dr. Bramorski & Dr. Blum		1.0		1.0	
Sunday, June 18	Day 2: Edinburgh		Lecture	Field	Lecture	Field	
Morning	Meet Alexis for Public Transport Lesson into City Centre Walking tour of Edinburgh City Centre: The API Resident Director will guide the students and faculty around Edinburgh City Centre, going through Grassmarket, the Royal Mile, Old Town, part of New town and Prince's Street, and will end at Edinburgh Castle.	Dr. Blum		3.0			
	Edinburgh Castle: One of Edinburgh's most iconic landmarks. Our visit will give us a chance to explore its old military jail, its Great Hall and						
Afternoon	even to see the Scottish crown jewels!	Dr. Blum		3.0			
Evening	API Welcome Dinner	Dr. Bramorski		1.0			
Monday, June 19	Day 3: Edinburgh		Lecture	Field	Lecture	Field	
			Lootaro	11010	Lootaro	1 1010	
Morning	Faculty Led Classes	Dr. Blum	3.0				
Afternoon	Close	Dr. Promoroki			4.0		
Afternoon	Class	Dr. Bramorski			4.0		
Evening	Dinner on own	Dr. Bramorski			+		

Tuesday, June 20	Day 4: Edinburgh	1	Lecture	Field	Lecture	Field
	buy 4. Lumburgh		Lootaro	Tiola	Lootaro	Tiola
Morning	Faculty Led Classes	Dr. Blum	2.0			
Afternoon	Tour of Surgeon's Hall Museum	Dr. Blum		2.0		2.0
Evening	Dinner on own	Dr. Blum				
Wednesday, June 21	Day 5: Edinburgh		Lecture	Field	Lecture	Field
Morning	Faculty Led Classes	Dr. Blum	3.0			
Afternoon	Class	Dr. Bramorski			4.0	
Alternoon					4.0	
Evning	Dinner on own					
Thursday, June 22	Day 6: Edinburgh		Lecture	Field	Lecture	Field
	01-02				4.0	
Morning	Class	Dr. Bramorski			4.0	
Afternoon Evening	Enlightenment and Age of Reason tour: The enlightenment in Edinburgh transformed philosophy, history, science and literature. From this small stage, a few men laid the foundations of modern economics, and inspired great leaps for modern medicine. But how did Scotland's capital gain its reputation as the Athens of the North? And what was it about the city that inspired so many thinkers?	Dr. Bramorski Dr. Blum	1.0			
		Dr. Diam				
Friday, June 23	Day 7: Edinburgh		Lecture	Field	Lecture	Field
Morning	BCMB4030/6030	Dr. Blum		3.0		
Afforman	The Edinburgh Genome Foundry (EGF) aims to manufacture genetic material on an unprecedented scale, using a fully automated robotic platform. The EGF will create and modify strands of DNA up to one million base-pairs long to equip cells or whole organisms with new or improved functionalities. Discover how the use of cutting edge synthetic DNA can solve real world problems. See how a genome lab works. Follow the journey of a spin out company and see how collaborations with academia helped them on their journey. Ask any burning questions				40	
Afternonn	you may have on starting your own spin-out company.	Dr. Bramorski			4.0	
3:30 - 6:30	BCMB4030/6030	Dr. Blum	1.0	2.0		
Saturday, June 24	Day 8: Edinburgh		Lecture	Field	Lecture	Field
Morning	Picked up for our trip to Glenkinchie Distillery In-depth, behind the scenes tour at Glenkinchie Distillery: Experience a distillery tour like no other. This tour will take us around the factory with an expert guide who will show us all the equipment and explain the process in great detail. Every Scotch has its own unique flavour and this can come down to the shape of the stills, the purity of the water, and so much more. We'll find out what makes the unique Glenkinchie flavour, and then we'll get to taste it for ourselves!	Dr. Blum				
Afternoon Sunday, June 25	Return to Edinburgh Lunch on own National Museum of Scotland: Our diverse collections will take you on a journey of discovery through the history of Scotland and around the world, taking in the wonders of nature, art, design and fashion and science and technology – all under one roof. Free time in City Centre until Ghost Tour	Dr. Bramorski	Lecture	Field	Lecture	Field
canady, cano Lo			Lostaro	1,010	Looture	11310
Morning	Faculty Led Classes and Meet Alexis at Edinburgh Waverley Take the train to Glasgow	Dr. Blum		2.0		

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	Guided walking tour on the famous Glasgow Mural Trail: Join us for a					
	walking tour of the amazing street art in Glasgow. Rain or shine we will					
	walk the city centre so bring a jacket even in summer! Our tour will start					
	in the heart of the city, and proceed through small alleys to discover					
	hidden gems. We will cover over 20 large murals in the city, with scenic					
	walks between them. We will pass some great historical landmarks and					
	buildings on our route and I will also point out and discuss other key					
	sights in the city as we pass them. We will stop at each mural and I will					
	give brief overview of how this piece of art came about and why it is significant to the city. Local favourite spots for food and drinks will be					
	highlighted as well, so take notes for later! Break for lunch and free time					
	Guided tour at Tennet's Brewery: Go behind the scenes on the					
	Tennent's Brewery Tour to discover the inner workings of Wellpark					
	Brewery - home to over 450 years of brewing tradition and award					
	winning beers, and enjoy a pint of the freshest Tennent's Lager on the					
Afternoon	house!	Dr. Bramorski				
Evening	Return on the train to Edinburgh and HWU	Dr. Bramorski				
						_
Monday, June 26	Day 10: Edinburgh		Lecture	Field	Lecture	Field
	GSK is a major pharmaceutical manufacturing facility in Irvine,					
	Ayrshire, where its plant produces 2,500 tonnes of antibiotics every					
	year. Learn about how GSK, Irvine manages its busy antibiotic					
	manufacturing and production facility. Find out more about how GSK					
	deals with health and safety, risk assessment, quality control and					
	assurance, the complex infrastructure required to support their					
	production schedules, fermentation techniques, downstream processing, product lifecycle management, supply chain management,					
Morning	antibiotic resistance and strain improvement processes.	Dr. Blum	3.0			
			0.0			
Afternoon	Field	Dr. Blum		4.0		
Evening	Return to HWU and Dinner on own	Dr. Bramorski				
ž		Dr. Bramorski				
Evening Tuesday, June 27	Return to HWU and Dinner on own Day 11: Edinburgh	Dr. Bramorski	Lecture	Field	Lecture	Field
Tuesday, June 27	Day 11: Edinburgh			Field	Lecture	Field
ž		Dr. Bramorski Dr. Blum	Lecture 3.0	Field	Lecture	Field
Tuesday, June 27 Morning	Day 11: Edinburgh Faculty Led Classes	Dr. Blum			Lecture	Field
Tuesday, June 27	Day 11: Edinburgh			Field 4.0	Lecture	Field
Tuesday, June 27 Morning Afternoon	Day 11: Edinburgh Faculty Led Classes Field	Dr. Blum			Lecture	Field
Tuesday, June 27 Morning	Day 11: Edinburgh Faculty Led Classes	Dr. Blum			Lecture	Field
Tuesday, June 27 Morning Afternoon Evening	Day 11: Edinburgh Faculty Led Classes Field Dinner on own	Dr. Blum	3.0	4.0		
Tuesday, June 27 Morning Afternoon	Day 11: Edinburgh Faculty Led Classes Field	Dr. Blum			Lecture	Field
Tuesday, June 27 Morning Afternoon Evening Wednesday, June 28	Day 11: Edinburgh Faculty Led Classes Field Dinner on own	Dr. Blum	3.0	4.0		
Tuesday, June 27 Morning Afternoon Evening	Day 11: Edinburgh Faculty Led Classes Field Dinner on own Day 12: Edinburgh	Dr. Blum Dr. Blum	3.0	4.0		
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10:30 - 12:30	Dinner on Own					
Friday, June 30	Day 14: Western Highlands Excursion		Lecture	Field	Lecture	Field
	Head north into the Highlands. Stops include: Photostop at Doune Castle, a supply in Callander (the Gateway to the Highlands) to pick up sandwiches and snacks, and other stops include Balquidder for a hike and to see Rob Roy's Grave, as well as a brief stop to see Hamish the Coo! Lunch stop at Glencoe to see the incredible mountain chain the Three					
Morning	Sisters					
Afternoon	As we continue farther into the Highlands we'll stop at Glencoe Centre, Glenfinnan Viaduct (the Harry Potter Bridge), and our final stop will be in Fort William to get groceries for dinner and breakfasts during our weekend. Arrive into Stromeferry- Stromeferry is a small village about 30 minutes away from the bridge to the Isle of Skye.					
Evening	Overnight in Stromferry					
Saturday, July 01	Day 15: Stromferry		Lecture	Field	Lecture	Field
Morning	Depart Stromeferry for Isle of Skye We make a quick stop at the local co-op to get packed lunches and snacks for the whole day. We spend the entire day on the Isle of Skye, and make stops at various places, such as: Portree, Kilt Falls, Old Man of Storr - walk, Quiraing, Uig, Fairy Pools, and the incredible Fairy Glen.					
Evening	On the second night our host and guide, the fabulous Nory cooks Haggis, Neeps, and Tatties (Scotland's National Dish) for all the guests. Options are available for any dietary requirement, we get alternative meals for those unable to eat the main dish.					
Sunday, July 02	Day 16: Edinburgh		Lecture	Field	Lecture	Field
Morning	Depart Stromeferry for Eilean Donan Castle Stop off at Eilean Donan Castle					
Afternoon	Arrive Fort Augustus, lunch break and chance to jump in Loch Ness Cruise on Loch Ness Stop at the Pottery Cafe in Perthshire and at the Hermitage, a beautiful nature walk with an epic waterfall!					
Evening	Drop off students and faculty at accommodations in Edinburgh In for the night back in Edinburgh					
Monday, July 03	Day 17: Edinburgh		Lecture	Field	Lecture	Field
Morning	UGA Faculty Led Classes	Dr. Blum	3.0			
Afternoon	Class	Dr. Bramorski			3.0	
Evening	Dinner on own	Dr. Bramorski				
Tuesday, July 04	Day 18: Edinburgh		Lecture	Field	Lecture	Field
				i ieiu	Lecture	i ieiu
Morning	UGA Faculty Led Classes	Dr. Blum	3.0			
Afternoon	Fermentation Workshop with FlexBio at HWU	Dr. Bramorski	<u> </u>		3.0	1.0
Evening	Dinner on own					
Wednesday, July 08	Day 19: Edinburgh		Lecture	Field	Lecture	Field
Morning	UGA Faculty Led Classes	Dr. Blum	3.0			
Afternoon	Fermentation Workshop with FlexBio at HWU	Dr. Bramorski			3.0	
Evening	Local Health lecture	Dr. Bramorski				
Thursday, July 09	Day 20: Edinburgh		Lecture	Field	Lecture	Field
		Dr. Plum				
Morning	UGA Faculty Led Classes	Dr. Blum	3.0			
Afternoon	Fermentation Workshop with FlexBio at HWU	Dr. Blum		3.0		3.0

Evening	Dinner on own			[
Friday, July 10	Day 21: Edinburgh		Lecture	Field	Lecture	Field
Morning	Presentations	Dr. Blum	4.0			
Afternoon	Presentations	Dr. Bramorski			4.0	
Evening	Ghillie Dhu 3-Course Dinner & Ceilidh: There is nothing more Scottish than a good ol' ceilidh, and none do it better than Ghillie Dhu. First we'll be given a traditional Scottish dinner, in 3 courses. After our bellies are full the real fun begins! Put on your dancing shoes and get ready to twirl your heart out to live, traditional, Scottish music!					
Saturday, July 11	Day 22: Edinburgh to U.S.		Lecture	Field	Lecture	Field
All day	Transit to airport					
	Total Hours	Total Lecture Hours	38.0		35.0	
		Total Field/ Lab Hours		32.0		7.0

Total Contact Hours 54.0 38.5

Total Contact Hours = Total Lecture Hours + (Total Field Hours / 2)

Courses require 12.5 contact hours for each credit hour earned

Initial academic itineraries are understood to be tentative and subject to change. Please be as specific and accurate as possible.

For questions, please contact the Office of Curriculum Systems at csabroad@uga.edu or 706-542-6358.