The tables below are illustrative examples of where elements of **Education for Sustainable Development (ESD)** already exist in the formal curriculum. Further details are available by request, email a.tierney@bristol.ac.uk or visit the ESD Wiki resource https://wikis.bris.ac.uk/display/BristolESD/ESD+at+Bristol (Google keywords: Bristol esd wiki)

Arts | Engineering | Medicine & Dentistry | Medical & Veterinary Sciences | Science | Social Sciences & Law

Arts

Economic	Social	Political	Environmental
pop art and consumerism	how the ancient world used art as a tool to promote personal and civic identities and to present gender, social status and ethnicity	individual activism, radicals, dissent and revolution; immigration, integration and parity; pre- democratic society; post- colonialism; national identities; Cold War	ethical issues relating to conservation, health and safety, ecological and heritage conflict
poverty	development of knowledge and its movement through cultures and time	diplomacy debates around justice that have been central to political philosophy	the character of environmental history and the role of nonhuman protagonists

Engineering

Economic	Social	Political	Environmental
ethical dilemmas encountered in business	the issues related to biocompatibility and ethics for medical applications	policy and legal aspects	critical analysis of the environmental impact of human activities such as agriculture and industry
aspects of water management in both developed and developing countries			
environmental protection in low-income and middle-income countries			

Medicine and Dentistry

Economic	Social	Political	Environmental
global inequalities in	manage patients from	law, ethics and	the principles of
gender, child and maternal	different social and ethnic	professionalism	prevention of dental
health and implications for	backgrounds; dental		disease - including social
global health priorities	services for a community		and environmental factors

Medical and Veterinary Sciences

Economic	Social	Political	Environmental
employment law,	ways that microbes impact	bioterrorism	environmental disease;
employee rights and	on society and describe the		viruses that have an
discrimination	ways they can be		impact on the earth's
	controlled		biogeochemical systems
the glo	bal impact on public health of	viruses	
facilitation of global trade	ethical issues of	distinguish between the	an ecological approach to
	transfusion and	subjects of ethics, law and	animal parasitism - how
	transplantation	professional conduct and	veterinary advice and
		explain how they are	intervention can be
		interrelated	targeted strategically to
			achieve sustainable control
			of parasites at the level of
			the individual and the
			population
disease prevention and			disease prevention and
control in relation to			control in relation to
environmental protection			environmental protection
and economics			and economics

Science

Economic	Social	Political	Environmental
geographically sensitive	prejudice and social influence, including attitude		applying clear ecological
research on the politics of	formation and persuasion, conformity and social		concepts to applied tasks
economics and the economics of politics	modelling		such as habitat management and
economics or politics			environmental assessment
understanding (and solv	ing) the environmental proble	ems such as global warming, fe	
<u> </u>	- ·	restoration of damaged and o	
Global warming hurgeonia	ng nonulations unnlanned urh	panization, logging of tropical f	oracts loss of hindiversity
-		ces, natural disasters, pandem	•
	0 1 7 0 0	, , , , , ,	, , , , , , , , , , , , , , , , , , ,
n althinal dama and a		la a constalia de la alea	
political democracy, economic development,	philosophical and ethical issues and the way	how politics - in the broadest sense of the word	aspects of chemistry of the environment - the
and social (in)equality	different important	- shapes human knowledge	atmosphere, seas and
	approaches have built	of, and interactions with,	oceans and the geosphere
	upon each other or	the physical environment	
	interconnected, and how		
	these ideas have changed		
	the way we think about		
the global financial crisis;	the world cultural psychological		exploitation and
the rise of the BRIC	approaches to social		management of natural
economies, and bio-	cognition		and agricultural
capitalism			ecosystems
the environmental,	evolutionary theory is considered by some to be		
economic, and	untestable, and by others to have undesirable but		
social/cultural impacts of tourism	unavoidable political and moral consequences, especially when applied to human social behaviour		
which applied to human social behaviour			

statistics is now very important in many fields of human endeavour - in science, medicine, industry, social science, commerce and government; multivariate techniques are used in medicine, physical, environmental, and biological sciences, economics and social science, and of course in many industrial and commercial applications

Social Sciences and Law

Social Sciences and Law				
Economic	Social	Political	Environmental	
wage inequality and the	on the relationship	Liberal theories of justice,	London congestion charge,	
national minimum wage,	between education and	namely:	climate change mitigation	
the scarring effects of	development - Human	communitarianism,	and building dams in India;	
unemployment, the rise of	Capital Theory, Human	multiculturalism,	growth and the	
the workless household	Rights, social justice -	deliberative democracy	environment; Milton	
and child poverty,	particularly the capabilities	and feminism.	Friedman's data on	
intergenerational	approach - and		consumption and data on	
transmission and the	postcolonial and		pollution and the	
impact of childhood	indigenous knowledge		environment;	
deprivation, and	perspectives		environmental misuse;	
neighbourhood and peer			climate change mitigation	
group effects in economic				
and social out turns				
dealing with	social welfare and policy s	such as poverty and social	dealing with	
environmental concerns -	exclusion, health, housing	, education, employment,	environmental concerns -	
Sustainable development,	citizenship and immigrat	ion, and criminal justice;	Sustainable development,	
pollution, climate change			pollution, climate change	
and the exploitation of	culture and ethnicity; globa	lisation, citizenship and risk;	and the exploitation of	
renewable and non-	welfare; labour migration, h	uman trafficking and asylum	renewable and non-	
renewable resources are	seeking; issues of socia	l division and exclusion	renewable resources are	
fundamentally resource			fundamentally resource	
allocation problems on	health policy, the role of health policy in the welfare		allocation problems on	
which economics has much	system and how health policy integrates with wider		which economics has much	
to say	social policy issues		to say	
human rights in economic development, aid and trade, in responses to terrorism, and			marine pollution	
	in armed conflicts			
in an and a second of		the release services	ta dilina ancia con control	
improving human development in poor countries		the role of government	tackling environmental	
		and institutions in	issues; the sources of	
development		development	environmental law	
globalisation and the	how language enacts social	What constitutes	contemporary theoretical	
integration of the world	and cultural perspectives	development, how to	and empirical debates in	
economy	and identities; diversity;	achieve it, and whether it	environment, energy and	
,	issues relating to race and	is achievable or desirable	resilience	
	ethnicity	takes us into a political and		
	•	ethical minefield.		

Using an ecological framework, the lives of children, their parents and their communities are explored; the links between the environmental issues, social policy, and the policy making process; connections between the environment and poverty; environmental justice, risk, rational choice, environmental citizenship, transport, and waste

Economic sanctions; humanitarian intervention; the United States in world politics; and poverty, inequality and the environment; power, the state, freedom and citizenship

Problems, challenges and prospects of regional conflict and cooperation and assesses the implications of possible power transition played for the global future



Figure 1Wordle of key ESD terms

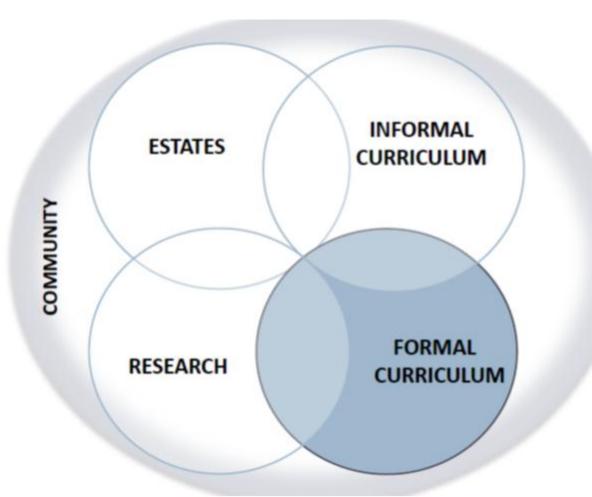


Figure 2 The 5 Circle model of Sustainability at the University of Bristol

ESD can be incorporated into a range of taught units, reflecting the original objectives of the course - not changing what they do, just doing what they do a little differently by building sustainability into a complementary area of the existing curriculum.

ESD and Dentistry

Social & Cultural Diversity

ESD

Protection & Restoration of the Earth's Ecosystems

Ecosystems

Cultural Diversity

Human Rights of Future Generations



Dentistry demands that students look at their place within the wider community.

One of the key UG courses, *The Dentist in*Society, challenges students to reflect critically on a dentist's social responsibility by considering the wider context of health and society, and the ways in which dental services contribute to society.

ESD can be incorporated into a range of taught units, reflecting the original objectives of the course - not changing what they do, just doing what they do a little differently by building sustainability into a complementary area of the existing curriculum.

ESD and History of Art

Social & Cultural Diversity

ESD

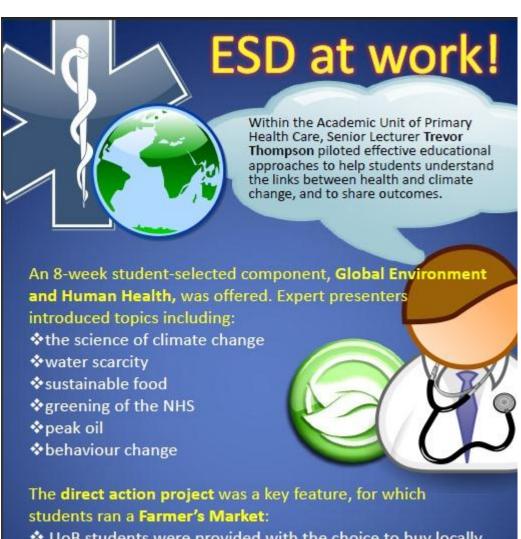
Protection & Human Rights of Future Generations



All **Art** has a context and all artists have multiple identities that influence their pieces.

The Pre Raphaelite movement believed that art should serve a moral purpose often confronting social issues such as class as demonstrated in Ford Maddox Brown's 'Work'.

Their art reacted against the industrialisation of Britain focusing on nature and beauty. Many of the models were artists in their own right, such as Eizabeth Sidal.



- UoB students were provided with the choice to buy locally produced, fresh foods, thereby supporting local farmers.
- All food was sourced from within a 30 mile radius of Bristol
- this reduced the number of 'food miles' of the products.

Figure 3 Examples of ESD at work in the formal curriculum