	Reference SCQF	AS4033 SCQF
Module Title	Level	10
Advanced Microbiology	SCQF Points 15	
	ECTS Points	5 7.5
Keywords	Created M	lay 2002
Microbiology, Ecology	Approved May 2008 Amended May 2011	
	Version No.	2

This Version is No Longer Current

The latest version of this module is available <u>here</u>

Prerequisites for Module	Indicative Student Workload	
None in addition to entry requirements for SCQF10.	Contact Hours	Full Time 30
Corequisite Modules None.	<i>Directed Study</i> Case study Directed study	10 40
Precluded Modules None.	<i>Private Study</i> Private Study	70
Aims of Module	Mode of Delivery	
To provide students with the ability to examine a range of topics related to advanced microbiology. Learning Outcomes for	The module is based on lectures with a substantial element of student centred learning and focussed tutorials on recently published research. Appropriate guest seminars will enhance the delivery of the unit. Assessment Plan	
Module		

On completion of this module, students are expected to be able to:

Learning Outcomes Assessed

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- 1.Discuss the role and application of biofilms, cell signalling, and molecular biology in medical, environmental and food microbiology.
- 2.Discuss the rationale and process for drug discovery from aquatic micro-organisms.
- 3.Discuss the role of micro-organisms in the remediation of the environment.
- 4.Examine current topics of interest in the field of advanced microbiology.

Indicative Module Content

Biofilms in medicine, food hygiene and the environment; cell signalling in the environment and its role in pathogenesis; application of molecular biology in environmental, medical and food microbiology; aquatic microbes as a source of pharmaceuticals; exploitation of micro-organisms for environmental clean-up; bioremediation; biodegradation; current topics - will allow delivery to be tailored to current interests and will be influenced by current advances/topics of the Component

Component 1 is assessed by a closed book examination.

Indicative Bibliography

1.No core text book will be used. Instead recently published scientific papers will form the basis of background material. time.