

## Study Abroad Programme

The module description below is from the 2019/20 academic year and is subject to change, and for the use of study abroad students only.

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Module name	Bio-medical sciences (2)
Module code	SL2002
School	School of Health Sciences
Department or equivalent	Division of Language and Communication Science
UK credits	15
ECTS	7.5
Level	5

### **MODULE SUMMARY**

#### Module outline and aims

This module will introduce you to essential neurological and ENT theory to develop your understanding of anatomical, physiological and neurological processes that underpin communication and swallowing.

#### Content outline

1. Give you an overview of the roles and responsibilities of those in the specialism and to educate you in aetiologies, medical terminology, descriptions of disorders, diagnostic procedures and medical/surgical management.
2. Provide you with information about the structures and function of aspects of the nervous system that support the oral, respiratory and speech production mechanisms.
3. Inform you about the range, nature and effects of congenital and acquired disease in children and adults which may influence speech production.
4. Familiarise you with the underpinning neurological bases of swallow and speech.

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Neurology & disorders of the nervous system:

You will study normal development and function of aspects of the nervous system which relate to speech production, e.g. motor areas of cerebral hemispheres, upper and lower motor neurones, extrapyramidal system, cerebellum and specific cranial nerves.

You will learn about the investigation, presentation, prognosis and management of disabilities arising from damage or disease to these systems in children and adults: cerebral palsy, disorders of the peripheral nervous system, cerebellar/movement disorders, extrapyramidal disorders, degenerative conditions, cerebrovascular disease and infection.

You will also consider the role of the MDT in management of neurological diseases. Disorders of ear, nose & throat (ENT) - you will learn about:

- Anatomy & physiology of the head & neck, particularly in relation to speech and swallowing
- Medical and surgical aspects of disorders of the ear and hearing, pharynx and throat
- Organic laryngeal pathology covering physiological changes
- Structural abnormalities, disease processes and functional outcomes

### **Pre-requisite Modules**

SL1001 Hearing & speech sciences (1)

SL1002 Bio-medical sciences (1)

SL1003 Life span studies

SL1004 Social context

SL1005 Language sciences (1)

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SL1006 Professional studies (1)

### **Co-requisite Modules**

SL2001 Hearing & speech sciences (2)

SL2003 Developmental psychology

SL2004 Language sciences (2)

SL2005 Speech, communication & swallowing disabilities

SL2006 Professional studies (2)

### **WHAT WILL I BE EXPECTED TO ACHIEVE?**

**On successful completion of this module, you will be expected to be able to:**

#### Knowledge and understanding:

- Demonstrate a detailed knowledge and understanding of the significance of medical terminology and understand a range of ENT disorders and how these affect speech perception and speech and voice production
- Demonstrate a detailed knowledge and understanding of the medical/surgical management of disorders of the ear, nose and throat.
- Demonstrate understanding of the relationship between damage to specific parts of the nervous system and consequent effects on both motor movement and the speech production system.

#### Skills:

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- Interpret information given in medical reports and understand the implications for communication

Values and attitudes:

- Show respect and tolerance for others in the group

### HOW WILL I LEARN?

Your contact hours for this module are lecture-based. Lectures are delivered by a range of in-house and visiting clinical staff.

Your self-directed learning opportunities for this module include use of the anatomy.tv library software.

*Teaching pattern:*

Teaching component	Teaching type	Contact hours (scheduled)	Self-directed study hours (independent)	Placement hours	Total student learning hours
Neurology	Lecture	10	65	0	75
Disorders of ear, nose & throat	Lecture	10	65	0	75
<b>Totals</b>		20	130	0	150

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### WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?

#### Assessments

You will be assessed by one class test (ENT and neurology). You must pass with a minimum of 40%.

Examples of class tests will be made available on Moodle, as will a topic schedule and advice for revision/completion of the tests.

#### *Assessment pattern:*

Assessment component	Assessment type	Weighting	Minimum qualifying mark	Pass/Fail?
ENT and Neurology Class Test	Set exercise	100%	40%	N/A

#### Assessment criteria

Assessment Criteria are descriptions of the skills, knowledge or attributes you need to demonstrate in order to complete an assessment successfully and Grade-Related Criteria are descriptions of the skills, knowledge or attributes you need to demonstrate to achieve a certain grade or mark in an assessment. Assessment Criteria and Grade-Related Criteria for module assessments will be made available to you prior to an assessment taking place. More information will be available from the module leader.

#### Feedback on assessment

Following an assessment, you will be given your marks and feedback in line with the Assessment

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Regulations and Policy. More information on the timing and type of feedback that will be provided for each assessment will be available from the module leader.

### Assessment Regulations

The Pass mark for the module is 40%. Any minimum qualifying marks for specific assessments are listed in the table above. The weighting of the different components can also be found above. The Programme Specification contains information on what happens if you fail an assessment component or the module.

### **INDICATIVE READING LIST**

Graham J and Martin M (Eds) (2009) Ballantyne's Deafness 7th Edition London: Whurr.

Lindsay, KW, Bone, I (2004) Neurology and neurosurgery illustrated (4th edition). New York; Edinburgh: Churchill Livingstone.

Primal Pictures 3D Human Anatomy, available from <http://www.anatomy.tv>

Seikel, JA, King, DW, Drumright, DG (2005) Anatomy & physiology for speech, language, and hearing (3rd edition). Clifton Park, NY: Thomson Delmar Learning.

Webb, WG & Adler, RK (2008). Neurology for the speech-language pathologist (5th edition). St. Louis: Mosby Elsevier.