

Summary of the Dental Science Programme 2017-18

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Context of Dentistry in Ireland

- Population of Ireland is approx. 4.6 million
- Approx. 2,800 registered dentists
- There are two dental schools (Dublin and Cork)
- Dublin Dental University
 Hospital and School of
 Dental Science
- Provides training for all dental professions
- Intake 32 EU and 18 NEU
- 28 FT Academic Staff



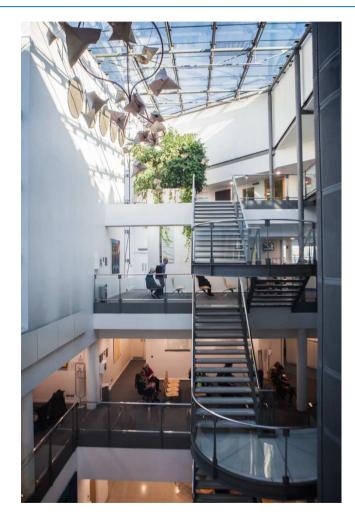
State-of-the-art Facilities



- 3 Dental Clinics
- One dental chair per student
- No shared sessions
- 100,000 treatemts/
 50,000 patients
 treated per year

The School & Hospital provides training for all members of the dental team

- 1. National centre for all dental specialities
- 2. High degree of integrated teaching between specialities
- 3. Internationally recognised, research-active staff directly involved in all students teaching
- 4. Opportunities for students to engage with research and to continue into specialist training



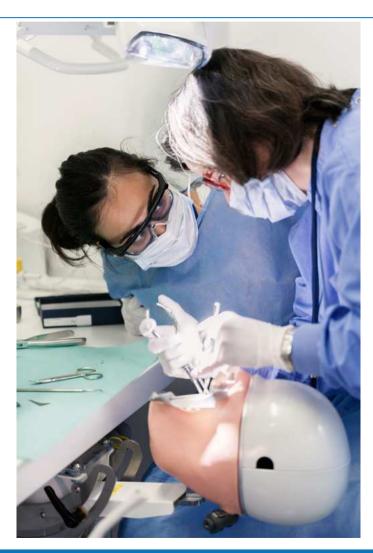
Dental Science curriculum

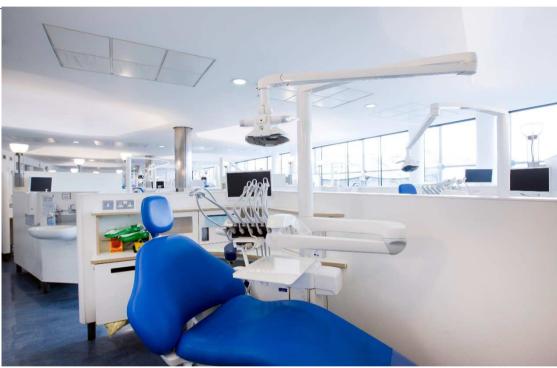
- Curriculum is 5,000 hours (40 weeks teaching)
- Spiral in structure with horizontal and vertical integration
- PBL-based teaching, but essentially a hybrid curriculum
 - PBL
 - Lectures
 - Clinic sessions
 - Portfolios/logbooks
 - Clinical skills lab
 - Laboratory practicals
 - Projects/assignments/dissertation

Summary of teaching methods

Year	PBL Tutorials	Clinic/Skills Lab	Lectures	Science practicals	Research Projects/ Dissertations	Case Presentations/ Case-based
Year 1	38%	4.5%	37%	25%		
Year 2	26%	50%	16%	7.5%		
Year 3	13%	73%	12%	2%		
Year 4	12%	70%	5%	2%	9%	2%
Year 5		92%	3%		2%	3%

Experiential Learning





Term Dates 2017-18

40 Weeks

Michaelmas: 28TH AUGUST to 15TH DECEMBER 2017 Hilary: 2nd JANUARY to 29th March 2018

Trinity: 16TH APRIL to 6TH JULY 2018

Remedial Period 25th June to 6th July

	- 01-Sep	dag-80 —	- 15-Sep	- 22-Sep	- 29-Sep	- 06-0ct	- 13-0ct	- 20-0ct	- 27-0ct	- 03-Nov	- 10-Nov	- 17-Nov	- 24-Nov	- 01-Dec	- 08-Dec	- 15-Dec	- 22-Dec	29062	12-len	19-lan	1 26-Jan	- 02-feb	- 09-feb	- 16feb	- 23 Feb	- 02-Mar	- 09-Mar	- 23-Mar	- 30-Mar	- 06-Apr	- 13-Apr	- 20-Apr	- October	- 11-May	- 18-May	- 25-May	- 01-Jun	- 08-lim	- 15-Jun	- 22-Jun	- 29-Jun	- 06-Jul	- 13-Jul	- 20-Jul	- 27-Jul	- 03-Aug	- 10-Aug	- 17-Aug	- 24-Aug	- 31-Aug	daç.zo -
2017-2018	28-Aug	04-Sep	11-Sep	18-Sep	25-Sep	02-Oct	09-0¢	16-0ct	23-0¢	30-04	OP-NOV	13-Nov	20-Nov		04-Dec	11-Dec	18-Dec	29062	OB-Jan	15.lan	22-Jan	29-Jan	05-Feb	12-Feb	19-Feb	26-Feb	05-Mar	19-Mar	26-Mar	02-Apr	09-Apr	16-Apr	30.40	07-May	14-May	21-May	28-May	Office	11-Jun	18-Jun	25-Jun	02-Jul	Inf-60	16-Jul	23-Jul	30-Jul	06-Aug	13-Aug	20-Aug	27-Aug	03-Sep
College Term Dates	Г					Mic	hack	nas T	erm	(TBC	7								-	Т				Hilar	y Ter	m (II	3C)			П				Tri	nity	Term	(TB	C)				Т	_	_	_		-		_		
Undergraduate Courses																						_																													_
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Year 1 Modules

Module Code	Module Title	ECTS	Owner
DE1001	Personal & Professional Development	5	Dr B Duane
	Unit 1.1: Introduction to Clinical & Academic Dentistry		Dr B Duane
DE1002	Human Biology	20	Dr J. O'Sullivan
	Unit 2.1: Microbiology, Physiology, Biochemistry Histology		Dr J O Sullivan Dr G Moran Dr H Reilly
DE1003	Physical Sciences	15	Dr G Moran
DE1004	Anatomy & Dental Anatomy	20	Dr G Moran
	Unit 4.1: Dental Anatomy Unit 4.2: Anatomy		Dr A Brazil Dr G Moran

380 contact hours - 6h Clinic; 11h skills lab

Year 1 assessments

Module Code	Module Title	Assessment Component (and Term)	Content Examined*
DE1A01	Dental Science Y1	Integrated Exam Paper 1 (Michaelmas) Anatomy Practical (Michaelmas)	Anatomy, Dental Anatomy and Histology Anatomy
DLIAUI	Assessment Module 1	Integrated Exam Paper 3 (Hilary) Anatomy Practical (Hilary)	Anatomy, Dental Anatomy and Histology Anatomy
	Dental	Physics Practical (Michaelmas)	Physics
DE1A02	Science Y1 Assessment Module 2	Physics Paper (Hilary) Chemistry Practical (Michaelmas)	Physics Chemistry
		Integrated Exam Paper 2 (Michaelmas)	Material covered in lectures and problem-based learning tutorials
	(Trinity) Dental	Integrated Exam Paper 4 (Trinity)	Material covered in lectures and problem-based learning tutorials SAQS & 1 Scenario question examining material from the whole year, designed to test the student's ability to apply knowledge to specific situations.
DE1A03	Science Y1 Assessment Module 3	Multi-Station Practical (Trinity)	Anatomy, dental anatomy, tooth morphology, histology, communications and medical and dental history-taking, cross infection control, instrument identification and dental charting.
		PBL Tutorial (Continuous)	
		Total	

Year 2 Modules

Module Code	Module Name	ECTS	Owner
DE2001	Basic Dental Care Unit 1.1: Basic Dental Care Unit 1.2: Periodontal Therapy Unit 1.3: Occlusion & Function Unit 1.4: Dental Radiology Unit 1.5: Dental Materials Science Unit 1.6: Endodontics	30	Dr P Hardy Dr P Hardy Dr D MacCarthy Dr P Hardy Dr A Bolas Dr G Fleming Dr H Duncan
DE2002	Human Biology II	15	Dr H Reilly
DE2003	Oral Biology & Introduction to Pathology Unit 3.1: Microbiology & Immunology in Oral Disease Unit 3.2: Clinical Oral Physiology, Saliva Practical Unit 3.3: Introduction to General Pathology	10	Prof D Sullivan Prof D Sullivan & Dr Moran Dr M O'Sullivan & Prof B O'Connell Dr M Toner & Dr S Galvin
DE2004	Dental Public Health Unit 4.1: Dental Public Health Unit 4.2: Critical Appraisal of the Scientific Literature	5	Dr B Duane Dr B Duane Dr G Fleming

650 contact hours - 101 h clinic; 217 h skills lab

Year 2 Assessments

In order to obtain credit and rise with the year a student must achieve <u>all</u> of the following:

- ❖ 50% of the annual total mark which includes the two integrated assessments, the laboratory practicals, the radiography continuous assessment and the continuous tutorial assessment.
- The satisfactory completion of all the competences for the year.
- The required level of clinical credits (60%)
- A satisfactory level of attendance.

Year 2 Assessments

End of Michaelmas term assessme	ent =	30%
End of Trinity term assessment	=	45%
Microbiology Practicals	=	5%
Physiology Practicals	=	5%
Biochemistry Practicals	=	5%
Radiography Assessment	=	5%
Continuous tutorial assessment	=	5%
Annual Total	=	100%

A pass mark of 50% applies to all assessments except competences and credits

Year 3 Modules

DE3000	Course Administration Year 3	ECTS	Dental Studies
DE3001	Fixed & Removable Prosthodontics	25	Dr B Grufferty
	Unit 1.1: Fixed Prosthodontics &		Dr P Hardy
	Removable Prosthodontics		Dr B Grufferty
	Unit 1.2: Occlusion & Function		Dr M O'Sullivan
	Unit 1.3: Edentulous State		Dr B Grufferty
	Unit 1.4: Dental Materials Science		Dr G Fleming
DE3002	Comprehensive Patient Care	15	Dr P Hardy
	Unit 2.1: Integrated Patient Care		Dr P Hardy
	Unit 2.2: Periodontal Therapy		Dr D MacCarthy
	Unit 2.3: Special Care Dentistry		Prof B Daly
	Unit 2.4: Evidence Based Dentistry		Prof B O'Connell
	Unit 2.5: Radiology		Dr A Bolas
	Unit 2.6: Smoking Cessation		Ms Y Howell
	Unit 2.7: Communication Skills		Dr Brett Duane
DE3003	Clinical Medical Sciences	20	Dr S Galvin
	Unit 3.1: Clinical Medical Sciences		Dr S Galvin
	Unit 3.2: Pharmacology		Dr M Lucitt
	Unit 3.3: General Pathology		Dr M Toner

778 contact hours - 351 clinic; 204 skills lab

Requirements for 3rd Year

In order to obtain credit and rise with the year a student must achieve <u>all</u> of the following:

- 1. An overall pass mark (50%) for the cumulative total of the written and Special Care Dentistry components of assessment in the year as listed below.
- 2. The pass mark for each of the two sections of the Trinity Term OSCE. The pass mark for each section will be standard set (must pass)
- An overall pass mark (50%) for the Occlusion & Function/Prosthodontics multistation practical examinations (must pass)
- 4. Satisfactory completion of all the competences
- 5. The required level of clinical credits (60%)
- **6.** A satisfactory level of attendance

Assessment Year 3

WRITTEN ASSESSMENTS

End of Michaelmas assessment = 35% of annual total

End of Trinity term assessment = 55% of annual total

Special Care Dentistry = 5% of annual total

Continuous tutorial assessment = 5% of annual total

Annual total = 100%

CLINICAL ASSESSMENTS:

Michaelmas Term Restorative Dentistry Multi-station practical

Hilary Term Restorative Dentistry Multi-station practical

Trinity Term OSCE (two sections must be passed).

Year 4 modules

Module Code	Module Name	ECTS	Owner
DE4001	Child Dental Health Unit 1.1: Paediatric Dentistry Unit 1.2: Orthodontics	10	Dr A O'Connell Dr A O'Connell Dr T McSwiney
DE4002	Advanced Restorative Dentistry I	20	Dr M O'Sullivan
DE4003	Comprehensive Patient Care Unit 3.1: Integrated Patient Care Unit 3.2: Periodontal Therapy Unit 3.3: Rotary Endodontics Unit 3.4: Dental Radiology Unit 3.5: Case Presentations	10	Dr P Hardy Dr P Hardy Dr D MacCarthy Dr H Duncan Dr A Bolas Dr P Hardy
DE4004	Dental Public Health Unit 4.1: Dental Public Health Research Projects Unit 4.2: Dental Public Health Update Unit 4.3: Evidence Based Dentistry Unit 4.4: Communications	5	Dr B Duane
DE4005	Oral Med, Oral Surgery & Oral & Dental Pathology I Unit 5.1: Oral Pathology Unit 5.2: Oral Surgery Unit 5.3: Oral Medicine	15	Dr C Healy Dr M Toner/E O'Regan Prof L Stassen Dr C Healy

892 contact hours – 576 clinic; 29 skills lab

Requirements for Year 4

- 1. An overall pass mark (50%) for the cumulative total of the written and clinical components of assessment in the year.
- 2. The pass mark in the OSCE in Trinity Term (which will be standard set).
- 3. Satisfactory completion of the Reflective Portfolio in Restorative Dentistry & Satisfactory completion of the Reflective Portfolio in Oral & Maxillofacial Surgery, Oral Medicine & Oral Pathology and the log book in Orthodontics
- 4. Satisfactory completion of <u>at least three</u> of the six core restorative clinical procedures and the competences in disciplines other than Restorative Dentistry.
- 5. The required level (i.e. 60%) of clinical credits.
- 6. A satisfactory level of attendance.

Assessment Year 4

WRITTEN ASSESSMENTS

End of Michaelmas term assessment = 25%

End of Trinity term assessment = 40%

Public Dental Health projects = 10%

Continuous tutorial assessment = 5%

Annual total =100%

CLINICAL ASSESSMENTS:

Reflective Portfolio in Restorative Dentistry = 20% of annual total Trinity Term OSCE must be passed

Year 5 modules

Module Code	Module Name	ECTS	Owner
DE5001	Public & Child Dental Health	10	Dr A O'Connell
	Unit 1.1: Paediatric Dentistry		Dr A O'Connell
	Unit 1.2: Orthodontics		Dr T McSwiney
	Unit 1.3: Dental Public Health (update)		Dr B Duane
DE5002	Advanced Restorative Dentistry II	15	Dr P Hardy
DE5003	Comprehensive Patient Care III	10	Dr P Hardy
	Unit 3.1: Periodontal Therapy		Dr D MacCarthy
	Unit 3.2: Integrated Patient Care Clinics		Dr P Hardy
DE5004	Oral Medicine, Oral Surgery & Oral	15	Dr C Healy
	Pathology II		
	Unit 4.1: Oral Surgery		Prof L Stassen
	Unit 4.2: Oral Radiology		Dr A Bolas
	Unit 4.3: Sedation & Anaesthesiology		Dr M Clarke
	Unit 4.4: Oral Medicine		Dr C Healy
	Unit 4.5: Oral Pathology		Dr M Toner
DE5005	Evidence-Based Dentistry	10	Professor D Sullivan
	Unit 5.1: Dissertation		Professor D Sullivan
	Unit 5.2: Case Based Learning		Dr D MacCarthy

690 contact hours – 636 h clinic

Requirements for Year 5

To be admitted to the final examination, students are required by end of Hilary term:

- 1. to have satisfactorily completed the designated competence tests
- to have satisfactorily completed all three Reflective Portfolios (including the Patient Management Competence)
- 3. to have achieved the required level of clinical credits (i.e. 60%) in all areas,
- 4. to have satisfactorily completed the dissertation
- 5. to have satisfactory levels of attendance as required

Final Examination

Four written papers in May

Three short answer question papers,

one from each Division (10 questions)

One integrated scenario question paper

One question from each Division

The breakdown of the marks for each division is as follows:

Written assessment 50% (10 SAQs + 1 Scenario question)

Clinical examination 50% OSCE (D3), Seen/Unseen cases

(D1), patient, portfolio (D2)

Experiential Learning

- Almost all clinical training is in hospital environment
 - Calibration/standardisation
 - Quality Control
- Clinics mirror general practice
- Local Decontamination Unit
- Plans to develop access to external healthcare facilities

Accreditation

- Dental Council of Ireland
- All dentists must be registered
- All programmes must be accredited (e.g. Nursing, Hygiene)
- Accredited every 5 years
- Site visit international panel (Canada)
- Extensive documentation and meetings with stakeholders

Challenges

Pressures from University to conform

Lack of understanding of requirements of clinical programmes

Trinity Education Project

Flexibility

Capstone

Modularisation







Thank You





