



## DENT1BA - Introduction

### Introduction

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## DENT1BA - Teaching profile

### Learning outcomes

The challenge of the Bachelor in Dentistry at UCL is to acquire from the start of his or her training scientific, medical and human qualities combining them with advanced technical skills, enabling him or her to take care of patients under supervision from the start of his or her Master's degree.

In practical terms, the training provided over the course of the Bachelor's programme allows the acquisition of these skills by integrating:

- basic scientific training,
- medical training (from understanding cellular processes to studying physiological and psychological processes of the human body),
- training in dentistry (examining oral tissues, their physiology and pathologies, and healthcare techniques and biomaterials used),
- professional training by practising dentistry in society.

In the Bachelor's programme, through various teaching activities (theoretical lectures and preclinical lab work) and clinical observations, the student will develop his or her future professional project, and put it into practice during the Master's course acquiring more and more autonomy.

Each course of the Bachelor's programme forms part of the development of certain specific items in the skills base list in accordance with the subjects and activities offered. The coherence of the programme can be seen in the tables identifying the learning outcomes prioritised by each course.

On successful completion of this programme, each student is able to :

- to develop a scientific attitude.

The student will be capable of integrating an understanding of different sciences and disciplines in order to apply them to common clinical situations.

1.1. Integrate the essential knowledge of basic, biomedical, technical and clinical sciences by theoretical preparation for the effective practice of dentistry,

1.2. Understand physiological and/or pathological structures, functions or behaviour in accordance with the patient's age, health and circumstances,

1.3. Apply this knowledge to common clinical situations.

- to make oral hygiene diagnoses.

The student will be able to make a clinical diagnosis of a patient displaying a "simple" medical condition frequently encountered in dentistry.

2.1. Collect accurate and detailed dental, medical and social information (e.g. addiction to tobacco or eating habits),

2.2. Identify the necessary parameters for an intra-oral or extra-oral medical examination including the temporomandibular joints and masticatory muscles, the teeth and gums and the oral mucous membranes, as well as an analysis of the occlusion,

2.3. Conduct a basic X-ray examination demonstrating an awareness of the risks of ionising radiation,

2.4. Interpret a set of clinical, radiographic and possibly laboratory results in order to make a diagnosis,

2.5. Make a common differential diagnosis and decide the final diagnosis from a number of alternatives.

- to plan oral hygiene treatment.

The student will be able to offer a treatment plan and organise a schedule for a common clinical case within each discipline, taught independently to allow optimum command. The multidisciplinary integration required for the effective practice of dentistry will be developed during the clinical work placements of the Master's course.

No specific information on this subject.

- to carry out the oral hygiene treatment.

The student will be able to carry out all technical activities on a simulator, because the Bachelor training is focused on the development of preclinical technical skills.

4.1. Be acquainted with the theoretical concepts allowing serious dental situations to be dealt with,

4.2. Have command of technical activities in a preclinical laboratory relating to restorative dentistry, prosthetic dentistry, endodontics and oral surgery.

- to manage the dentist-patient relationship.

The student will be acquainted with the theoretical concepts allowing patients to be dealt with appropriately from the start of the active clinical work placements.

5.1. Be acquainted with the theoretical concepts allowing the stress of patient and dentist to be dealt with appropriately,

5.2. Identify expectations of the patient in terms of needs and demands by active listening in a consultation context at a basic level (adult patient displaying common pathologies),

5.3. Communicate with the patient, to an appropriate and adapted degree of complexity, to explain treatment options,

5.5. Identify the psychological and medical factors causing and/or prolonging a dental, oral or facial illness or impairment or another pathology.

5.6. Understand written and spoken documents (audio and video) in English in the medical field in general and dentistry in particular.

- to work as part of a team.

The student will be aware of his/her own knowledge and share that with other medical or dental practitioners with whom he/she might interact in the patient's interests.

6.1. Provide information relating to his/her knowledge, diagnoses, suggestions for treatment (common clinical cases), to an appropriate and adapted degree of complexity (type of vocabulary, amount of information, etc).

6.2. Be aware of his/her own skills and the limits of his/her expertise.

- to act in a socially professional and responsible way.

The student will be able to view his/her future practice from a societal, ethical and financial perspective.

7.1. Describe the (relative) position of the clinical practice in relation to improving the health of the population and analyse the current challenges for health and the healthcare systems,

7.2. Place the medical approach and pharmaceutical practice in relation to other scientific disciplines (natural sciences and social sciences) and tackle certain ethical issues (animal experimentation, stem cells, etc),

7.3. Be acquainted with the essential concepts concerning hygiene in a dental surgery and be able to prepare equipment effectively before a technical activity.

- to constantly learn and improve.

The student will be able to demonstrate a critical mind with regard to his/her own learning as well as to the scientific information provided.

8.1. Identify learning outcomes from a self-assessment perspective

8.2. Respect scientific recommendations and understand written and spoken documents, particularly in English (audio and video), in the medical field in general and dentistry in particular.

## Programme structure

The bachelor's of Dental Science represents 180 credits, spread over three years of studies each of 60 credits. The programme doesn't include minor or elective courses.

The teaching activities are organized in 5 themes :

- basic scientific training,
- medical training (from understanding cellular processes to studying physiological and psychological processes of the human body),
- training in dentistry (examining oral tissues, their physiology and pathologies, and healthcare techniques and biomaterials used),
- professional training by practising dentistry in society,
- clinical observations.

## DENT1BA Programme

## Detailed programme by subject

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- ⊗ Open to incoming exchange students
- ⊗ Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)



Year

1 2 3

### o Content:

#### o Basic scientific training (16 credits)

○ WMEDE1100	Physique générale	Pascale Wauters	10 [1 1 1 h W n 1 1] [40h+25q 11059 70o cm 0 -1 n31 1 95
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				Year		
				1	2	3
○ WIDENT1110	Physique appliquée aux sciences dentaires	Vincent Lemaitre Pascale Wauters	PO [q2] [20h+10h] [3 Credits] 	x		
○ WIDENT1111	Chimie appliquée aux sciences dentaires	Mohamed Ayadim Benjamin Elias Jean-François Gohy	PO [q2] [30h+20h] [3 Credits] 	x		

FR

Year

1 2 3

o Training in dentistry (examining oral tissues, their physiology and pathologies, and healthcare techniques and biomaterials used) (65 credits)

o WDEnt1121	Dental anatomy	Séverine Mateu-Ramis	FR [q1] [30h+30h] [5 Credits]	X		
o WDEnt1129	Introduction à la pratique dentaire	Séverine Mateu-Ramis	FR [q2] [10h+56h] [4 Credits]	X		
o WDEnt1284	Prothèse amovible 1ère partie	Magali Dewaele Caroline Gillard (coord.)	FR [q2] [25h+30h] [4 Credits]		X	
o WDEnt1285	Gnathologie : Occlusion	Magali Dewaele (coord.) Laurent Pitance	FR [q2] [15h] [2 Credits]		X	
o WDEnt1242	Matériaux dentaires : concepts et analyse critique	Gaétane Leloup (coord.) Julian Leprince	FR [q2] [40h+15h] [5 Credits]		X	
o WDEnt1244	Prévention dentaire	Selena Toma (coord.)	FR [q2] [15h] [2 Credits]		X	
o WDEnt1391	Cariologie et dentisterie conservatrice	Matthieu Gilli (coord.) Julian Leprince Rémy Ruelle Eliane Schmitz	FR [q1] [45h] [4 Credits]			X
o WDEnt1351	Chirurgie générale et bucco-dentaire	Raphaël Olszewski (coord.)	FR [q1] [45h] [4 Credits]			X
o WDEnt1320	Prothèse amovible complète	Magali Dewaele (coord.) Caroline Gillard	FR [q1] [20h] [2 Credits]			X
o WDEnt1321	Prothèse amovible partielle	Magali Dewaele (coord.) Chloé Hardy	FR [q2] [20h] [2 Credits]			X
o WDEnt1222	Prothèse inamovible (1re partie)	Chloé Hardy	FR [q2] [20h] [2 Credits]		X	
	Prothèse inamovible (2e partie)	David Dive Chloé Hardy (coord.)	FR [q1] [30h] [3 Credits]			X
o WDEnt1335	Parodontologie	Selena Toma (coord.)				

Year

				1	2	3
○ WIDENT1333	Psychologie médicale 	Anne Wintgens	PK [q2] [30h] [3 Credits] 			x

○ Clinical observations (8 credits)

○ WIDENT1133	Stage d'observation et projet professionnel (A)					
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## Course prerequisites

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The **table** below lists the activities (course units, or CUs) for which there are one or more prerequisites within the programme, i.e. the programme CU for which the learning outcomes must be certified and the corresponding credits awarded by the jury before registering for that CU.

These activities are also identified **in the detailed programme**: their title is followed by a yellow square.

### **Prerequisites and student's annual programme**

As the prerequisite is for CU registration puposes only, there are no prerequisites within a programme year. Prerequisites are defined



- WIDENT1242 - Matériaux dentaires : concepts et analyse critique
- WIDENT1222 - Prothèse inamovible (1re partie)
- WIDENT1225 - Laboratoire de dentisterie restauratrice et prothétique (1re partie)

**WIDENT1351** "Chirurgie générale et bucco-dentaire" has prerequisite(s) WMDS1103 ET WIDENT1121 ET WIDENT1210

- WMDS1103 - Anatomie générale et fonctionnelle
- WIDENT1121 - Dental anatomy
- WIDENT1210 - Head and neck anatomy and embryology

**WIDENT1360** "Eléments de radiologie dento-maxillo-faciale et radioprotection" has prerequisite(s) WIDENT1121 ET WIDENT1210

- WIDENT1121 - Dental anatomy
- WIDENT1210 - Head and neck anatomy and embryology

**WIDENT1391** "Cariologie et dentisterie conservatrice" has prerequisite(s) WIDENT1242 ET WIDENT1254

- WIDENT1242 - Matériaux dentaires : concepts et analyse critique
- WIDENT1254 - Physiologie et sémiologie bucco-dentaires

**WSBIM1334D** "Immunologie générale (partim DENT)" has prerequisite(s) WIDENT1204

- WIDENT1204 - Biologie cellulaire et moléculaire

## The programme's courses and learning outcomes



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For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

## Detailed programme per annual block

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**o Medical training (from understanding cellular processes to studying physiological and psychological processes of the human body)**

o WMEDE1112	Biologie et embryologie générale	Charles De Smet (coord.)	ES [q1] [45h +15h] [5 Credits] 
o WMDS1105	Histologie générale	Christophe Pierreux	ES [q1] [20h +60h] [5 Credits] 
o WMDS1109	Biologie moléculaire	Guido Bommer Marie Boucquey	

## DENT1BA - 2ND ANNUAL UNIT

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- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🌐 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

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[Click on the course title to see detailed informations \(objectives, methods, evaluation...\)](#)

### o Content:

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#### o Medical training (from understanding cellular processes to studying physiological and psychological processes of the human body)

● WDE1210

Head and neck anatomy and embryology ■

Catherine Behets  
Wydemans (coord.)

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**DENT1BA - 3RD ANNUAL UNIT**

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫🌐 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

**o Content:****o Medical training (from understanding cellular processes to studying physiological and psychological processes of the human body)**

○ WDENT1303	Anatomie pathologique générale et bucco-dentaire 1re partie ■	Selda Aydin Alessandra Camboni Hélène Dano An-Katrien De Roo Delphine Hoton (coord.)	FB [q2] [15h +20h] [2 Credits] 🌐
○ WDENT1330	Microbiologie médicale et bucco-dentaire ■	Benoît Kabamba-Mukadi Hector Rodriguez- Villalobos Alexia Verroken (coord.)	FB [q1] [35h +10h] [4 Credits] 🌐
○ WDENT1337	Pathologies médicales, 1re partie ■	Isabelle De Brauwer Anne-Catherine Pouleur (coord.)	FB [q1] [34h] [3 Credits] 🌐
○ WDENT1338	Pathologies médicales, 2e partie ■	Marie Baeck Isabelle De Brauwer Laurence De Montjoye Coralie Hemptinne Dominique Hermans Anne-Catherine Pouleur (coord.)	FB [q2] [36h] [4 Credits] 🌐
○ WSBIM1334D	general immunology ■	Sophie Lucas (coord.)	FB [q1] [35h] [3 Credits] 🌐 > English- friendly

**o Training in dentistry (examining oral tissues, their physiology and pathologies, and healthcare techniques and biomaterials used)**

○ WDENT1391	Cariologie et dentisterie conservatrice ■	Matthieu Gilli (coord.) Julian Leprince Rémy Ruelle Eliane Schmitz	FB [q1] [45h] [4 Credits] 🌐
○ WDENT1351	Chirurgie générale et bucco-dentaire ■	Raphaël Olszewski (coord.)	FB [q1] [45h] [4 Credits] 🌐
○ WDENT1320	Prothèse amovible complète ■	Magali Dewaele (coord.) Caroline Gillard	FB [q1] [20h] [2 Credits] 🌐
○ WDENT1321	Prothèse amovible partielle ■	Magali Dewaele (coord.) Chloé Hardy	FB [q2] [20h] [2 Credits] 🌐
○ WDENT1324	Prothèse inamovible (2e partie) ■	David Dive Chloé Hardy (coord.)	FB [q1] [30h] [3 Credits] 🌐
○ WDENT1335	Parodontologie ■	Selena Toma (coord.)	FB [q2] [40h +30h] [5 Credits] 🌐
○ WDENT1360	Dentomaxillofacial Imaging & radioprotection ■	Aurélié Chantrenne Dana Ioana Dumitriu Raphaël Olszewski (coord.)	FB [q2] [22.5h] [3 Credits] 🌐

○ W Dent1342	Endodontie 🇯🇵	Sam Aryanpour (coord.) Pierre Carsin Julian Leprince Eliane Schmitz	PR [q2] [37.5h] [5 Credits] 🌐
○ W Dent1336	Anesthésie 🇯🇵	Armand Irakoze Pierre Mahy (coord.) Victoria Van Regemorter	PR [q2]

## DENT1BA - Information

### Access Requirements

Decree of 7 November 2013 defining the landscape of higher education and the academic organization of studies.

The admission requirements must be met prior to enrolment in the University.

**In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.**

#### SUMMARY

- [General access requirements](#)
- [Specific access requirements](#)
- [Access based on validation of professional experience](#)
- [Special requirements to access some programmes](#)

### General access requirements

Except as otherwise provided by other specific legal provisions, admission to undergraduate courses leading to the award of a Bachelor's degree will be granted to students with one of the following qualifications :

1. A Certificate of Upper Secondary Education issued during or after the 1993-1994 academic year by an establishment offering full-time secondary education or an adult education centre in the French Community of Belgium and, as the case may be, approved if it was issued by an educational institution before 1 January 2008 or affixed with the seal of the French Community if it was issued after this date, or an equivalent certificate awarded by the Examination Board of the French Community during or after 1994;
2. A Certificate of Upper Secondary Education issued no later than the end of the 1992-1993 academic year, along with official documentation attesting to the student's ability to pursue higher education for students applying for a full-length undergraduate degree programme;
3. A diploma awarded by a higher education institution within the French Community that confers an academic degree issued under the above-mentioned Decree, or a diploma awarded by a university or institution dispensing full-time higher education in accordance with earlier legislation;
4. A higher education certificate or diploma awarded by an adult education centre;
5. A pass certificate for one of the [entrance examinations](#) organized by higher education institutions or by an examination board of the French Community; this document gives admission to studies in the sectors, fields or programmes indicated therein;
6. A diploma, certificate of studies or other qualification similar to those mentioned above, issued by the Flemish Community of Belgium, the German Community of Belgium or the Royal Military Academy;
7. A diploma, certificate of studies or other qualification obtained abroad and deemed equivalent to the first four mentioned above by virtue of a law, decree, European directive or international convention;

#### Note:

Requests for equivalence must be submitted to the Equivalence department ([Service des équivalences](#)) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium in compliance with the official deadline.

The following two qualifications are automatically deemed equivalent to the Certificate of Upper Secondary Education (Certificat d'enseignement secondaire supérieur – CESS):

- European Baccalaureate issued by the Board of Governors of a European School,
- International Baccalaureate issued by the International Baccalaureate Office in Geneva.

8. Official documentation attesting to a student's ability to pursue higher education (diplôme d'aptitude à accéder à l'enseignement supérieur - DAES), issued by the Examination Board of the French Community.

### Specific access requirements

- Access to bachelor programmes for candidates of nationality outside the European Union who are not assimilated to Belgian nationals is subject to the following criteria:
  - not have obtained a secondary education diploma for more than 3 years maximum. Example: for an admission application for the academic year 2024-2025, you must have obtained your diploma during the academic years 2021-2022, 2022-2023 ou 2023-2024. In the French Community of Belgium, the academic year runs from September 14 to September 13
  - not already hold an undergraduate degree
- Candidates, whatever their nationality, with a secondary school diploma **from a country outside the European Union**, must have obtained an average of 13/20 minimum or, failing that, have obtained this average, have passed one year of study in Belgium (for example special Maths / sciences). A non-successful year will not be taken into consideration.





## Specific professional rules

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These studies lead to a professional title subject to specific rules or restrictions on professional accreditation or establishment.

You will find the necessary legal information by [clicking here](#).

## Teaching method

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The Bachelor programme in Dentistry offers a varied methodology based on the development of learning outcomes.

In addition to basic scientific training provided mainly by lectures, students are invited to contextualise their theoretical and practical learning during passive clinical observations in the 2nd year, becoming more practical in the 3rd year of the Bachelor's course enabling the student to heal his or her own patients during the Master's degree.

Preclinical lab work is already offered two afternoons a week from the 2nd year of the Bachelor's programme. This practical work allows the student to put into practice his or her theoretical knowledge.

## Evaluation

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***The evaluation methods comply with the [regulations concerning studies and exams](#). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".***

The course content and activities are evaluated in accordance with the prevailing rules and regulations of the University (c.f. exam reglementation). Exams are organized at the end of the session periods (January, June) as well as in September.

In accordance with the learning outcomes of the Bachelor's programme :

- theoretical knowledge is evaluated mainly by individual written exams including mainly multiple choice questions (MCQ) or open-ended questions requiring short or long answers.
- the practical tasks and work experience are likewise evaluated in the form of ongoing evaluation during the 2nd and 3rd years of the Bachelor.

Hence, at the end of the Bachelor programme, the students will have to prove that they have acquired all the scientific, medical, human and technical skills needed to deal with the real life clinical situations (during their Master's degree).

## Mobility and/or Internationalisation outlook

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No student exchange programme is provided during the Bachelor years. However, exchanges are organized with various European, Lebanese, Brazilian and Canadian Universities during the second year of the Master.

## Possible trainings at the end of the programme

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The bachelor's degree entitles access to the master's of Dental Science, without the need for any complementary prerequisites

Furthermore, reorientation towards the programmes of Bachelor in Biology, Chemistry and Bioengineering could be possible at the end of the first year of the bachelor's, subject to additional complementary courses.

## Contacts

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## Entity

Structure entity	SSS/MEDE/MDEN
Denomination	(MDEN)
Faculty	Faculty of Medicine and Dentistry (MEDE)
Sector	Health Sciences (SSS)
Acronym	MDEN
Postal address	Avenue Hippocrate 10 - bte B2.5721 1200 Woluwe-Saint-Lambert Tel: <a href="tel:+3227645721">+32 (0)2 764 57 21</a> - Fax: <a href="tel:+3227645722">+32 (0)2 764 57 22</a>

## Mandate(s)

- Présidente : Magali Dewaele

Academic supervisor: [Magali Dewaele](#)

## Jury

- President of the bachelor jury: [Séverine Mateu-Ramis](#)
- Secretary of the bachelor jury: [Gaëtane Leloup](#)

## Useful Contact(s)

- Contact person for the 1st year of the bachelor: [Maxime Demaret](#)
- Contact person for the 2nd and 3rd years of the bachelor: [Afi Agbekponou](#)
- Administrative manager of the faculty of medicine and dentistry: [Gaelle Fransman](#)
- Study advisor: [Gaëtane Leloup](#)

