RECRUITEMENT MODALITIES
FOR APLICANTS TO SPECIALIZED STUDIES SPECIALTY MASTER
YEAR ACADEMIC 2025-2026

Specialized Master studies are full-time programs comprising 21 to 24 hours weekly (lectures, preclinical and clinical sessions, oral presentations, clinical cases presentations, articles publication; please refer to post-graduate studies rules).

The completion of work on a thesis is required at the conclusion of the Specialty Master program studies, at the end of the 6th semester, after succeeding at and validating the totality of the required credits.

1. The applicant should fill out a form indicating one or more choices by order of priority.
2. Theoretical competences acquired during undergraduate studies are specified for each discipline for the written examination
3. Clinical and/ or practical examinations are clearly enunciated for each discipline.
4. The analysis of a scientific article
5. An interview is conducted and graded according to an evaluation table.
6. The applicant's file should be deposited at the administrative offices of the Faculty of Dental Medicine in care of Mrs Souad HAJJ MOUSSA FEGHALI with the following documents:
   - ***Doctor in dental surgery degree (DDS) or its equivalent attested by the Ministry of Higher Education at UNESCO.***
   - ***Lebanese Baccalaureate part two or its equivalent validated by the Ministry of Higher Education at UNESCO***
   - ***Grades obtained during the last three years of study.***
   - ***Two letters of recommendation emanating from two of the following: (not applicable to students of the faculty).***
     1. ***The head of the establishment where the DDS degree was obtained .***
     2. ***The head of the department for the specialty being applied for, at the establishment where the DDS degree was obtained.***
     3. ***A professor at the establishment where the DDS degree was obtained.***
        - ***Join if applicable any post-graduate degree obtained previously.***
        - ***A detailed curriculum vitae***
        - ***Identity card***
        - ***Two passport-format pictures of the applicant.***

- **<u>Applicants' selection</u>**
  Selection is performed by classification according to the scores obtained for items 2, 3, 4, 5. Examinations for items 2, 3 and 4 are held during the month of July 2025.
  - A general mean score is calculated based on the following percentages:
    1. *Article analysis by the applicant* *20%*
    2. *Applicant's interview* *20%*
    3. *Applicant's file evaluation* *20%*
    4. *Written examination* *20%*
    5. *Clinical or practical skills examination* *20%*
  - Any previously obtained post-graduate studies degree as well as any period of post-graduate professional experience will be taken into consideration during the evaluation.
  - *In case of a tie between applicants to a specialty program in the general mean score calculated over a total of 20 points, the applicants having stated said specialty as their first choice for post-graduate studies will be favored.*
  - *The Heads of department and post-graduate study programs directors for each specialty decide with the Dean's agreement of the number of candidates to admit after the selection process is completed.*

If a Department would like to admit a foreign student to its specialty program, and if there is none amongst the selected candidates, the Department is authorized to accept the student(s) based on the highest scoring foreigner, conditional to the score being equal or higher than 10/20.

Article Analysis

Candidates will be given an English article to read and summarize for 1.5 hours. They will be required to evaluate the structure and relevance of the article, answer questions related to their specialty, write the abstract, or complete certain sections of the article.

Upon leaving the room, candidates will submit the article to the invigilator. The administration will take the necessary steps to ensure anonymous corrections.

- ***Interview***

  The interview aims at evaluating the applicant's motivation concerning their chosen field of specialty, their cultural background, their professional goals and their vision for their future.

  INTERVIEW OBJECTIVES

  - *Verifying the applicant's analytical, synthetic and critical capabilities, and evaluating their degree of knowledge and self- assurance in addition to their mastery of languages.*
  - *Forming an opinion concerning motivation and capacity for work.*

An evaluation table consisting in «appreciations» is converted at the end of the interview into a score, which will be accounted for in the final score according to its preestablished coefficient.

Common core courses

The basic sciences session (tronc commun 1) includes several courses. To validate the specialty Master's results, passing successfully this examination is mandatory with a grade equal to or above 10/20 in each subject matter.

The student who has obtained a grade below 10/20 in one or several courses has the right to submit to a make-up examination session in the two weeks following publication of the first examination's results

The student can be on probation period only once within a given program.

Université Saint-Joseph de Beyrouth
Faculté de médecine dentaire

Specialized Master's Degree in Dental Medicine
Academic Year 2025–2026

Specialty program

PERIODONTOLOGY

1. THEORETICAL EXAM – PROGRAM

- Anatomy and histology of periodontium (gingiva, alveolar bone, periodontal ligament, cementum,)
- Dental plaque and biofilm.
- Classification of periodontal diseases (2017 World Workshop).
- Pathogenesis of periodontal disease.
- Chronic gingivitis associated to plaque.
- Clinical parameters of periodontal health.
- Periodontitis: different stages and grades.
- Aggravating factors of periodontal disease.
- Susceptibility of periodontal disease.
- Genetics and periodontal disease.
- Periodontal disease and systemic disease.
- Non-surgical therapy of periodontal disease.
- Antimicrobial therapy of periodontal disease.
- Clinical examination, parameters and treatment plan in periodontology.
- Supportive periodontal therapy.
- Flaps in periodontal surgery.
- Indications of muco-gingival surgery.
- Treatment of furcation involvement.
- Periodontal healing (clinical and histological).
- Osseointegration: Basic principles.
- Basic principles of implant surgery.

Required Equipment for the Master's in Periodontology (for all 3 years)

1. Magnifying Glass
2. Camera (specifications will be provided upon admission)
3. Periodontal surgery instruments (list will be provided upon admission)
4. Turbine
5. Lengthening Burs
6. Laptop with the following specifications:
   - **CPU:** Mid-Range: Intel Core i7-14700HX High-End: Intel Core i9-14900HX
   - **GPU:** Minimum: NVIDIA RTX 4060 Mid-Range: NVIDIA RTX 4070 High-End: NVIDIA RTX 4080
   - **RAM**: Mid-Range: 32GB DDR5 High-End: 64GB DDR5
   - **Operating System:** Windows 11

ENDODONTICS

- **THEORETICAL COMPETENCE** *(Written Exam)*
  - Preparation for the endodontic procedure
    - Sterilization
    - Radiography
    - Anesthesia
    - Medical emergencies
    - Diagnosis in endodontics
    - Ergonomics
    - Operating field
  - General principles including
    - The canal anatomy
    - Root canal Access
    - Canal shaping
    - Canal obturation

- **PRACTICAL COMPETENCE** *(Preclinical Examination)*

  Coronal access + preparation and filling of an extracted monoradiculated tooth.

  - **Equipment**

    The candidate must have 3 simulators **(RESIN BLOCKS)** and the necessary instrumentation to perform the requested act (NiTi motor included).

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Faculté de médecine dentaire

PEDIATRIC DENTISTRY

- **THEORETICAL KNOWLEDGE** *(Written Examination)*
  - Child psychology (anxiety, pain, simple behavior management techniques)
  - Introduction to traumatology (principles and classifications)
  - Introduction to prevention (fluoride and tooth brushing)
  - Introduction to occlusal guidance (space maintainers)
  - The dentition (anatomy and physiology of primary and permanent teeth)
  - Simple tooth extraction

- **PRACTICAL COMPETENCE** *(Preclinical Work Examination)*
  - Simple wire bending
  - Cavity preparation on primary teeth
  - Primary tooth pulpotomy

For this examination, the candidate should have the necessary instrumentation as well as two extracted primary teeth with at least three quarters of the roots present (one anterior and one posterior tooth).

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Faculté de médecine dentaire

AESTHETIC AND PROSTHETIC DENTISTRY

A. FIXED PROSTHODONTICS

- **THEORATICAL KNOWLEDGE** *(written exam - duration:30mn)*
  - Different preparations in fixed prosthodontics.
  - Cervical finish lines.
  - Provisional restorations.
  - Impressions techniques.
  - Post and cores and build-up techniques.
  - Cementation and bonding materials in fixed prosthodontics.
  - Pontics design.
  - Etiology and pathology of the neuro-muscular and articulation dysfunction.
  - Occlusal appliances. Les gouttières occlusales.
- **LABORATORY COMPETENCES** *(bench exam - duration: 3 hours)*
  - Full coverage preparation on upper 1st molars, incisors and canines.
  - Full coverage preparation on upper 1st premolar.
  - Temporary restoration on the prepared tooth.
  - Cast mounting on semi-adjustable articulator.
  - **Instruments needed for the Fixed prosthodontics bench exam:**
    - Typodont with a complete set of upper and lower teeth. (frasaco)
    - High speed + slow speed contra-angle (2 holes)
    - Diamond and carbide burs for full coverage preparations.
    - Cold-cure acrylic with rubber dappen dishes for temporaries.
    - Semi-adjustable articulator.
    - Universal pliers.
    - Sable brushes.
    - Spatulas.
    - Acrylic burs.
    - Polishing wheels.

B. RESTORATIVE AND AESTHETIC DENTISTRY

- **THEORETICAL SKILLS** *(theoretical exam- Duration 30mn)*
  - Choice of direct materials in DRE
  - Dental amalgams
  - Composites
  - The different preparations for direct techniques
  - Direct complex cavities
  - Choice of indirect materials
  - Dental ceramics
  - Ceromers
  - The principles of preparations for inlays
  - The principles of preparations for veneers
  - Whitening of vital teeth
  - Whitening of root treated teeth
  - Pulp capping
  - Dental adhesives
- **PRACTICAL SKILLS** *(bench exam - duration: 1h30)*
  - Preparation and filling of a class I cavity on a molar
  - Preparation and filling of a class II cavity on a molar

- Preparation and filling of a class III cavity on anterior tooth
- Preparation and obturation of a class IV cavity on upper central
- Preparation and filling of a class V cavity
- Preparation and filling of a complex Amalgam cavity
- Preparation and filling of a MOD cavity in Amalgam and composite

❖ **Material required for the DR competition**

- Burs for preparation of cavities for composite and amalgam and polishing material for composite
- Silicone tips for polishing
- Matrices of thickness 0.045 and width 7mm + Matrix holder
- Matrices celluloid
- Wooden wedges
- Instruments for obturation
- Light curing units

C. REMOVABLE PROSTHODONTICS

➢ **THEORETICAL COMPETENCE** *(theoretical exam- Duration 30mn)*

- **Partial prosthesis**
  - Clinical examination of a removable partial denture.
  - Choice of the insertion axis in removable partial prosthesis.
  - Preprosthetic preparation of a removable partial denture.
  - Choice and indications of the elements of a removable partial denture (main and secondary retainer, clasps, occlusal and mucous rests).
  - Impression techniques in removable partial denture.
- **Complete denture**
  - Clinical examination of an edentulous patient.
  - Impression techniques in complete denture.
  - Intermaxillary relationships in complete denture.
  - Articulator and mounting of the teeth.
- **General**
  - Dental materials in removable prosthesis.
  - Implants and complete denture

➢ **Practical competence** *(bench exam - duration: 1h30)*

- Creation of an acrylic partial denture on a plaster model
- (clasp, wax and setting of teeth).
- impression of a removable partial denture: drawing of the frame, surveying of a dental cast, realization of a special tray.
- Creation of a complete denture on a plaster model

❖ **Material required for the Removable Prosthesis competition:**

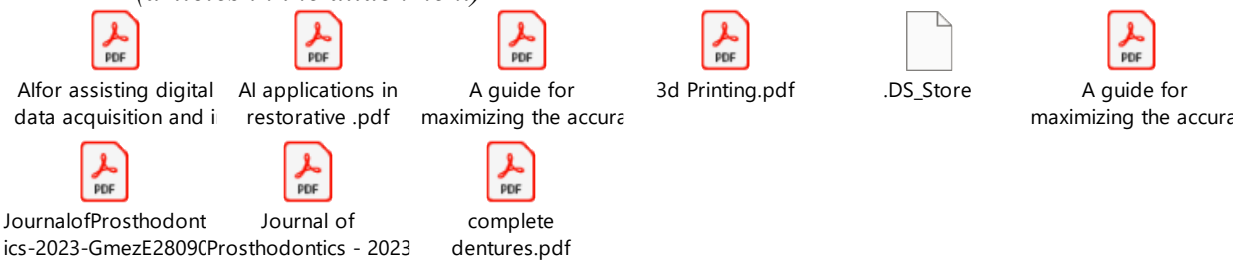
- Wax knife, Zahle, PKT, LeCron
- Clasps pliers: Cutting pliers, 3 beak pliers, bird beak pliers
- Micro-motor with straight handpiece and low-speed handpiece
- Acrylic burs (different shapes)
- Colored pencils
- Pencil
- Round and cylindrical burs for low-speed (different sizes)
- Godets for acryl by Rubber in different size
- Metallic spatula
- Glass Mixing slab
- articulating paper
- Alcohol lamp

D-DIGITAL DENTISTRY :

➢ **THEORETICAL COMPETENCE** *(theoretical exam- Duration 30mn)*

- Introduction to Digital Dentistry
- CAD/CAM Systems
- Digital Impression Techniques and Factors affecting th Accuracy
- Overview of Manufacturing Techniques
- Digital Smile Design (DSD)
- Overview on Artificial Intelligence

(articles in the attachment)



The scientific articles related to Digital Dentistry are now available separately, under the section

"Articles to Read - Digital Dentistry."

ORTHODONTICS

The entrance exam includes the following tests:

1. Article analysis
2. Interview
3. Theoretical exam
4. Radiology
5. Wire bending

The detailed program will be distributed to candidates after registration for the entrance exam.

1. **ARTICLE ANALYSIS :** The candidate will receive a scientific article in English language. He is supposed to analyze and criticize it, while highlighting strengths and weaknesses. A discussion with a jury will follow to evaluate the candidate.
2. **INTERVIEW :** This interview aims to get to know the candidate through questions covering various aspects of his personality.
3. **DIAGNOSIC AND TREATMENT PLAN OF A CLINICAL CASE :** A clinical case will be presented to participants to assess their knowledge related to diagnosis and treatment plan.
4. **THEORETICAL REVIEW** : It includes the following chapters:
   - Orthodontic terminology
   - Craniofacial growth
   - Development of the dentition
   - Establishment of the occlusion
   - Etiology of malocclusions
   - Clinical examination
   - Cephalometry
   - Orthodontic diagnosis
   - Treatment plan
   - Biological basis of orthodontic treatment.
   - Preventive orthodontics
   - Interceptive orthodontics
   - Corrective orthodontics
   - Orthodontics and other disciplines
   - Failures, relapse and retention in orthodontics.
   - Digital orthodontics
   - Artificial intelligence in orthodontics
   - Aligners in orthodontics
   - Mechanical principles of orthodontic appliances

   References:
   - Orthodontics: Current Principles and Techniques – TM Graber.
   - Contemporary Orthodontics – W. Proffit.
5. **RADIOLOGY :** It covers the following concepts:
   - Principles of cephalometric teleradiography
   - Radiology equipment
   - Cephalometric incidences
   - Head position for lateral cephalometry
   - Reliability of radiological documents
   - Radiological anatomy
   - Cephalometric points, lines and planes

- Cephalometric tracing technique.

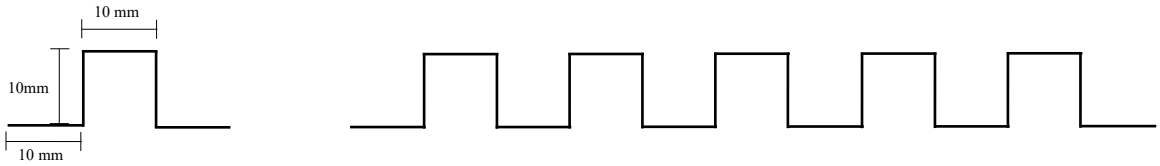
Material list *(at the expense of the candidate):*
- White blouse
- Mechanical pencil with 2HB leads
- Transparent sticky paper and plastic eraser
- Stencil, millimeter ruler, square and protractor.

Reference:
- Orthodontic Cephalometry – A. Athanasiou.

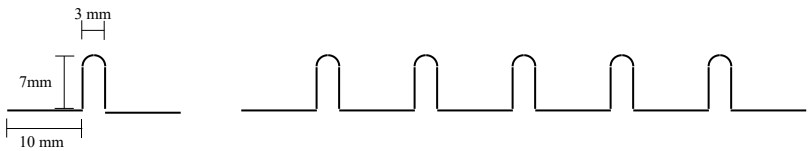
6. **WIRE BENDING :** It features wire bending exercises of different diameters according to multiple configurations.
These works will be performed under the supervision of teachers from the department.
Material list *(at the expense of the candidate):*
- White coat
- Hard wire cutter plier
- Plier 105G
- Tweed plier
- Optical plier
- 2 pliers 442
- Stainless steel round wire .018"
- Stainless steel round wire .016"
- Stainless steel rectangular wire .016x.022"
- Stainless steel rectangular wire .019x.025"
- Fine indelible marker pen
- Bristol paper: 5x5 mm square
- Glass plate with black background, 1cm thick and 15x20 cm in size
- Adhesive paper
- Graph paper.

Bending exercises
Bend the following configurations

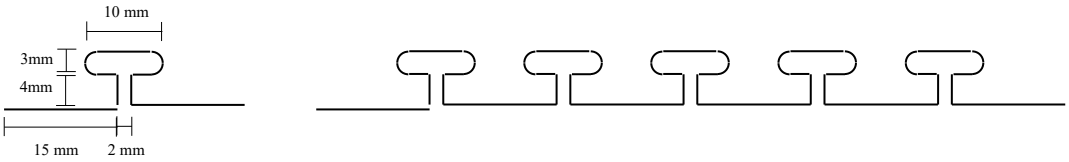
- **Exercise 1: .016 Stainless Steel, Right angle.**
Make right angles forming squares of 10 mm sides as shown in the figure, while checking the measurements on a sheet of graph paper.
The folds are made on the jaws with quadrangular section of the pliers 139.



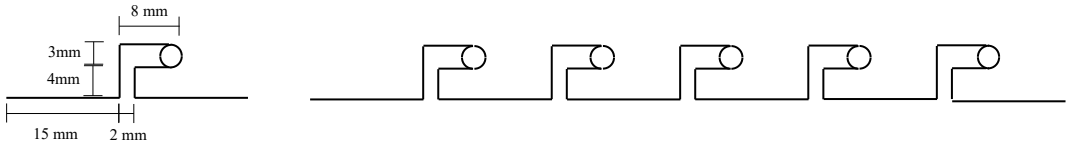
- **Exercise 2: 016 Stainless Steel, Round angle.**
Make rounded corners as shown in the figure, while checking the measurements on a sheet of graph paper.
Try to mark the wire always in the same place to start the rounding and to have the same location on the rounded jaw of the pliers.



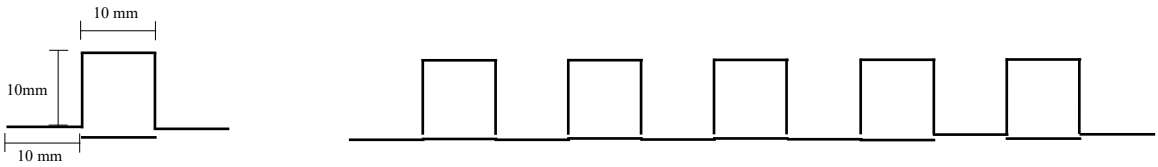
- **Exercise 3: .016 Stainless Steel, T shape loop.**
  Perform T-loops as shown in the figure, while checking the measurements on a sheet of graph paper.



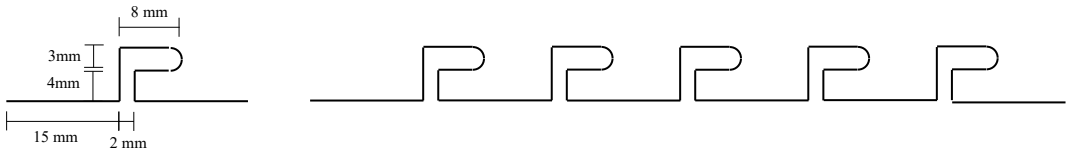
- **y**
  Perform L loops with helix as shown in the figure, while checking the measurements on a sheet of graph paper.
  The configuration should be plane.



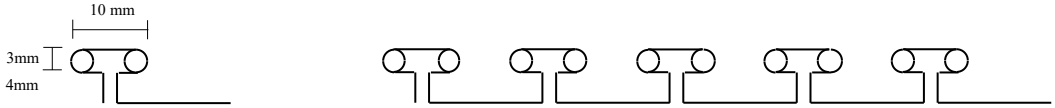
- **Exercise 5: .018 Stainless Steel, Box loop.**
  Make right angles forming closed squares of 10 mm sides as shown in the figure, while checking the measurements on a sheet of graph paper.
  The folds are made on the jaws with quadrangular section of the pliers 139.
  Alternate plans.



- **Exercise 6: .016 X .022 Stainless Steel, L loop.**
  Perform L loops as shown in the figure, while checking the measurements on a sheet of graph paper.
  Try to mark the wire always in the same place to start the rounding and to have the same location on the rounded jaw of the pliers.
  Avoid incorporating 3rd order bends in the wire.

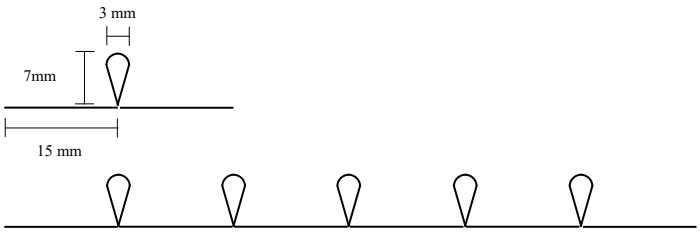


- **Exercise 7: .016 X .022 Stainless Steel, T Loop + helix.**
  Make T-loops with helix as shown in the figure, while checking the measurements on a sheet of graph paper.
  Find the plane at the base of each loop.

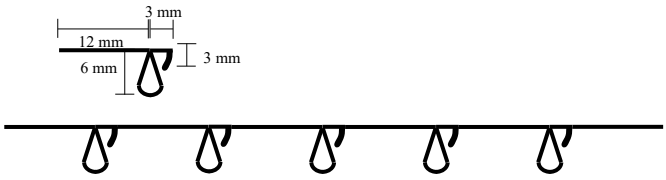


- **Exercise 8: .019 X .025 Stainless Steel, Omega.**
  Mark the middle of the straight wire 20 cm in length.
  Make a second mark corresponding to the distal leg of the omega (i.e. 17 cm from the middle).
  Place the plier mesially with respect to the mark and execute the omega while keeping the plier and the wire in the same plane.

- **Exercise 9: .019 X .025 Stainless Steel, Bull loop.**
  Make Bull Loops using the Tweed pliers while respecting the exact dimensions.



- **Exercise 10: .019 X .025 Stainless steel, Shoe horn.**
  Make Shoe Horn shaped loops using the Tweed pliers while respecting the exact dimensions.



- **Exercise 11: .019 X .025 Stainless Steel, Helical bulbous loop.**
  Make helical bulbous loops using the Tweed pliers while respecting the exact dimensions.