



**CALL FOR APPLICATIONS FOR HONORS TRACKS 2024/2025
April 2025**

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(IDi-Me)

Art. 1 Purpose and Objectives

1. Humanitas University offers its students the opportunity to acquire additional knowledge, skills, and competences in a chosen area to interested and motivated students by activating a program of “Honors Tracks” (HTs). The tracks chosen to be activated are based on the specialist medical areas (residencies and centers) of the University and associated hospitals as well as on topics of special relevance to global health issues, primary care and family medicine.
2. An additional purpose of HTs is to support students in making a more informed choice concerning their residency school after graduation by helping them to understand their aptitude for a specific specialty area.
3. In activating the HTs, Humanitas University also takes into account the fact that access to postgraduate programs in many countries begins with an initial evaluation of a young doctor’s curriculum vitae, therefore, making the acquisition of additional credits a valuable asset in the selection process.
4. For the academic year 2024/25 Humanitas University has already run a selection process for the Honors Tracks and the places that have not been assigned are object of this call for application. The 17 available places reflect the allocation defined for each degree course in the previous call for application.

Art. 2 Honors Tracks and number of places available

1. HTs are organized according to the topic/area. They may include intensive periods from June to September, from January to February and/ or activities during the first and second semester.
2. Tracks are intended for students from the third year onward, as determined specifically by each track.
3. Depending on the track, the type of activities may include seminars, simulation, outpatient activities, ward activities, operating room activities, multidisciplinary meetings, clinical case discussions, journal clubs and activity in the labs.
4. HTs are designed to provide 10 CFU/ECTS that are recorded in the diploma supplement as a part of the student’s learning pathway. To obtain these extra credits, students of HTs need to pass a final exam related to the track and to complete all exams of the Degree programme in Medicine and Surgery or MEDTEC.

The following Honors Tracks are available for this call for application:

- Honors Track in Oncology (Oncotrack) (Annex A);
- Honors Track in Orthopedics (Orthotrack) (Annex B);
- Honors Track in Allergy and Clinical Immunology (Immunotrack) (Annex C);
- Honors Track in Pathology (Annex D)
- Honors Track in Infectious Diseases And Clinical Microbiology (IDi-Me) (Annex E)

Honors Tracks are activated with a minimum number of students, defined per track (see Annexes).

Art. 3 Eligibility requirements

Only candidates meeting the following requirements will be considered for the selection:

- **Being enrolled for the first time in the 4th year of the Degree program in Medicine and Surgery or MEDTEC; for IDi-Me track, and Immunology track MEDTEC students must be enrolled in the 5th year.**
- Having completed all the exams of the study plan up to the semester prior to the application (i.e. 1st semester 2024-2025);
- Having attended all the OSCE exams according to your study plan.
- Having obtained a weighted average grade of at least 25/30 in the professionalizing activities and in the exams;

Students enrolled in the Virgilio program are not eligible.

Art.4 Selection criteria

MEDICAL STUDENTS

Students will also be selected with the aim of ensuring a multicultural and international environment within each track. To this purpose, and considering the student population of the medical school cohorts, a quota of 1/3 is usually assigned to Non-EU students. However, as stated in art. 1.4, the available places for this call reflect the allocation defined for each degree course in the previous call for application.

After the selection, two ranking lists will be generated for each track, a ranking for the EU students and one for the Non-EU students.

Medical school	PLACES	EU	Non EU
ORTHO	4	1	3
IMMUNO	3	2	1
PATHOLOGY	3	2	1
TOTAL NUMBER	10	5	5

MEDTEC STUDENTS

The places available for MEDTEC students are as follows. One ranking list will be defined for MEDTEC students.

MEDTEC school	PLACES
ONCO	2
IMMUNO	1*
IDI-ME	1*
PATHOLOGY	3
TOTAL NUMBER	7

*places reserved to 5th year MEDTEC school

Art. 5 Ranking and Allocation Criteria

Humanitas University will publish the rankings on 29 April 2025 on the LMS page.

The ranking lists will be generated assessing a score for the eligibility requirements as reported in Table 1.

Table 1

Eligibility requirements	Score Calculation
Weighted average of grades	$[(\text{Avg. grade} - 25)/(30 - 25)] * 50$
Average grade of professionalizing activity	$[(\text{Avg. grade} - 25)/(30 - 25)] * 50$

The highest achievable score is 120 points: 30 cum laude will be considered as 31.

If applicants achieve the same final score, the higher weighted average of grades will prevail. In case of a further equal score, priority will be given to the student who has participated in fewer extracurricular activities (such as travel grants, Erasmus). In case of a further equal score, priority will be given to the younger student.

Based on this principle, separate rankings are created for each Honors Track. The University will publish only **the list of admitted students**, who will be able to identify themselves through their ID number.

Allocation of the places: places of a specific category (EU/Non-EU) that are not covered are transferred first within the same degree course (EU versus Non-EU and vice versa) and eventually to the other degree course. For example: within a specific Honors Track, if no candidates in the EU category of Medicine are eligible, their places will be offered to Non-EU students of Medicine and vice versa. Moreover, if places dedicated to the Medical school are not covered by medical students (either EU or Non-EU), the vacant spots will be offered to students of the MEDTEC School and vice versa.

Withdrawal

Candidates who wish **to decline** their enrollment despite qualifying must notify their decision by emailing honorstracks@hunimed.eu between April 29th 2025 and May 5th 2025.

Main dates

Registration opening	11/04/2025
Registration deadline	14/04/2025 at 5:00 pm
Ranking publication	29/04/2025

Art. 6 Rules of attendance

Track duration may vary according to the specific programmes. To proceed from one section of the track to the next, students must have attended at least 90% of the activities and passed an intermediate evaluation related to professionalism and knowledge. Acquisition of the 10 credits is subject to a final evaluation and attainment of the degree title in Medicine and Surgery and MEDTEC.

Annex A HONORS TRACK IN ONCOLOGY

Rimassa Lorenza, Scorsetti Marta

Purpose and objectives

The purpose of the track is to provide students with an in-depth knowledge of the diagnostic and therapeutic approach to the most relevant solid tumors. The track also aims at helping students to discover their aptitude for oncology and related fields of interest.

Organization

The track will be organized as follows:

- Intensive period one: 2 weeks during the summer of the fourth year (23-27 June and 8-12 September 2025).
- One weekly activity over the two semesters of the fifth year.
- Intensive period two: 1 week during the winter of the fifth year (January 2026).

At the end of the track, students will have acquired 10 formative credits (10 CFU/ECTS) that will be certified on the Diploma Supplement.

Type of activities

During the intensive periods students will be exposed to different areas of the Cancer Center participating in the following type of activities:

- Seminars
- Clinical case discussions
- Multidisciplinary meetings
- Journal clubs
- Outpatient clinics
- In-patient clinics
- Simulation labs.

During the 1st and 2nd semesters of the fifth year, students will be asked to participate in weekly 1-hour meetings/journal clubs. Students must attend at least 10 of these events.

During the Honors Track, students must fill in a daily diary of the activities including reflections, questions, and take-home messages. At the end of each intensive period the students must ensure that their diary is signed by their tutor and delivered to the coordinator of the Honors Track.

Assistance and guidance for students

Each student selected for this Honors Track will be entrusted to a tutor in Medical Oncology and one in Radiotherapy for assistance and guidance during the activities.

The contact email for administrative issues is honorstracks@hunimed.eu.

Learning objectives

Knowledge and understanding

- General overview of Medical Oncology and Radiotherapy: illustrate the clinical approach to cancer patients, the importance of the multidisciplinary approach, and of personalized medicine.
- Breast, lung, colon, and prostate cancer: the big killers. Describe the clinical presentation, radiological, pathological aspects, and treatment. Discuss clinical trials and published papers.
- Difficult communication and conversations: discuss the importance of the psycho-oncologist in the patient journey from diagnosis to treatment and prognosis.
- From theory to clinical practice: from basic clinical activities of the Cancer Center to advanced clinical activities, including discussion of complex cases, management of emergencies in oncology, and diagnostic/therapeutic procedures (e.g. biopsy, thoracentesis, paracentesis).

Application of knowledge and understanding

By the end of the course the student will be able to:

- Describe the pathognomonic signs and symptoms of the most relevant solid tumors, including breast, lung, colorectal and prostate cancer.
- Produce a differential diagnosis according to identified signs and symptoms; choose the correct diagnostic imaging work-up and bioptic procedures in order to obtain the proper diagnosis.
- Illustrate the main oncologic and radiotherapy treatments for each discussed tumor, from the mechanisms of action to the different therapeutic aims.

- Learn how to communicate with an oncologic patient, with a particular focus on difficult situations including disease progression and poor prognosis.

Assessment

At the end of the first and second intensive period students will be evaluated on:

Professionalism: overall professional behaviour during the period considering attendance, readiness, punctuality, diary completion...)

- Knowledge acquired: discussion of clinical cases
- Progression from the first intensive period to the rest of the track will be based on successfully passing the first evaluation.

Activation of the Track

This Honors Track will be activated with a minimum number of 5 students. A maximum of 12 students will be selected per edition.

Annex B HONORS TRACK IN ORTHOPAEDICS

Di Matteo Berardo, Loppini Mattia

Purpose and objectives

Knowledge acquired during the Honors Track in Orthopaedics is essential to gain an overview of orthopaedic practice, understand the differences among orthopaedic sub-specialties, and provide a solid basis to aspire to residency programs in any of these sub-specialties. The course should help the students to understand their aptitude for surgical practice and their main field of interest among different orthopaedic fields.

Organization

The track will be organized as follows:

1. Intensive period one: 2 weeks during the summer of the fourth year, as follows: September 1st-September 12th 2025.
2. One monthly activity over the two semesters of the fifth year
3. Intensive period two: 1 week during the winter of the fifth year
4. Intensive period three: 2 weeks during the summer of the fifth year

Each year, the students must rotate in different orthopaedic sub-specialties, attend in-class lectures, attend simulation activities.

Types of activities

During the intensive periods students will be exposed to the different surgical areas participating in the following type of activities:

- Operating theatre
- Seminars
- Clinical case discussions
- Simulation.

In total, the student is required to carry out a five-week surgical clinical rotation made available by the University. Students will be exposed to the following surgical areas: Hip Surgery, Knee Surgery, Hand Surgery, Shoulder and Elbow Surgery, Trauma Surgery.

During the clinical rotations, the student will be supervised by a tutor and will be required to fill in a

weekly diary on a daily basis, including reflections, questions, and take-home messages.

At the end of this period the students must ensure that the diary is signed by their tutor and delivered to the coordinator of the track.

Assistance and guidance for students

Each student selected for this Honors Track will be entrusted to a tutor for each intensive period for assistance and guidance during the activities.

The contact email for administrative issues is honorstracks@hunimed.eu.

Learning objectives

Knowledge and understanding

By the end of the course the student will acquire the following knowledge:

- Main features of the surgical theatre (open versus arthroscopic surgery set-up)
- Most-frequently used equipment and devices of the surgical theatre and of their basic functioning
- Protocols for the perioperative management of orthopaedic patients
- Risks of the surgical context (infection, physical, and chemical agents)
- Quality and medical-legal principles in orthopaedics
- Basic surgical skills in different orthopaedic sub-specializations
- Principles of management of basic traumas in an ER setting, including closed reduction and plaster positioning.

Application of knowledge and understanding

By the end of the course the student will be able to:

- Prepare a sterile surgical field, including hand washing, dressing, and draping.
- Perform surgical sutures and wound dressing.
- Identify different surgical tools and choose the most adequate one for basic procedures.
- Perform basic movements during a minimally invasive procedure (arthroscopy and, if available, robotic procedures).
- Perform some surgery-related invasive maneuvers, i.e. intra-articular injections, braces, plasters and simple wound sutures.

- Interpret the commonest imaging modalities in orthopedic patients.

Assessment

At the end of the first intensive period students will be evaluated on:

- Professionalism: overall professional behaviour during the period considering attendance, readiness, punctuality, diary completion)
- Knowledge acquired: discussion of clinical cases.

Progression from the first intensive period to the rest of the track will be based on successfully passing the first evaluation.

Activation of the Path

This Honors Track will be activated with a minimum number of 6 students. A maximum of 12 students will be selected per edition.

Annex C HONORS TRACK IN ALLERGY AND CLINICAL IMMUNOLOGY (IMMUNOTRACK)

Hefler Enrico Marco, Selmi Carlo Francesco

Purpose and objectives

The knowledge acquired during the Honors Track in Allergy and Clinical Immunology is intended to allow the students to understand how the major allergic and immuno-rheumatological diseases are diagnosed and managed and to provide tools for continuous scientific update through the literature. The course should help the students understand their vocation towards the practice of allergy and clinical immunology.

This track is addressed only to Medical students of the 4th year and MEDTEC students of the 5th year.

Organization

The track will be organized as follows:

- Intensive period #1: 2 weeks during the summer of the fourth year (in the Allergy Unit and Rheumatology Unit). As follows: July 21st to August 1st 2025
- One monthly lecture/seminar on trending topics over the two semesters of the fifth year
- One bimonthly assignment for independent student work and subsequent evaluation during the two semesters of the fifth year
- Two activities at the Simulation Center during the two semesters of the fifth year
- Participation at two scientific events (one about Allergy, and one about Rheumatology) during the two semesters of the fifth year
- Intensive period #2: 2 weeks during the summer of the fifth year (at the Allergy Unit and Rheumatology Unit) July 20th-31st, 2026

Each year, the students will be required to attend all proposed clinical activities, in-class lectures/seminars/journal clubs/scientific events, and attend simulation activities.

Types of activities

During the intensive periods students will participate in Allergy and Clinical Immunology/Rheumatology activities:

- Outpatient clinics

- Seminars/Lectures
- Journal Clubs
- Scientific events
- Simulation

In total, the student is required to carry out a four-week clinical rotation at the Allergy and the Clinical Immunology/Rheumatology units made available by the University. During the clinical rotations, the student will be supervised by a tutor and will complete a weekly diary on a daily basis, including reflections, questions, and take-home messages. At the end of this period the students will ensure that the diary is signed by their tutor and delivered to the coordinator of the track.

Assistance and guidance for students

Each student selected for this Honors Track will be assigned to a tutor for each intensive period for assistance and guidance during the activities. The contact email for administrative issues is honorstracks@hunimed.eu.

Learning objectives

Knowledge and understanding

By the end of the course the student will acquire the following knowledge:

- Diagnostic procedures and guidelines for allergic and clinical immunological/rheumatological diseases.
- Phenotypic characterization and treatment of main allergic and clinical immunological/rheumatological diseases.
- Novel therapeutic approaches to allergic and clinical immunological/rheumatological diseases.
- Principles of management of allergic and immunological/rheumatological emergencies.
- Multidisciplinary approach to the main allergological and immunological/rheumatological diseases.
- Principles of clinical trials participation in allergy, clinical immunology and rheumatology
- Principles of translational clinical and research in allergy, clinical immunology and rheumatology

Application of knowledge and understanding

By the end of the course the student will be able to:

- Identify the clinical features of the main allergic and clinical immunological/rheumatological diseases.
- Understand and critically evaluate the phenotypic characterization of the main allergic and clinical immunological/rheumatological diseases.
- Perform and interpret the main diagnostics tests in allergy, clinical immunology and rheumatology
- Understand the process to decide the most suitable treatment (including biological and other innovative drugs) for each single patient affected by main allergic and clinical immunological/rheumatological diseases.
- Actively collaborate in clinical trials.
- Actively participate in clinical and translational research projects.
- Write and critically revise scientific articles.

Assessment

At the end of the first intensive period students will be evaluated on:

- Professionalism: overall professional behaviour during the period considering attendance, readiness, punctuality, diary completion, and critical interaction with physicians and scientists;
- Knowledge acquired: discussion of clinical cases;

Progression from the first intensive period to the rest of the track will be based on successfully passing the first evaluation.

Activation of the Path

This Honors Track will be activated with a minimum number of 2 students. A maximum of 4 Medical students will be selected per edition.

Annex D HONORS TRACK IN PATHOLOGY

Uccella Silvia, Salvatore Lorenzo Renne

Purpose and objectives

The Honors Track in Pathology is aimed to give students an overview of the multifaceted world of a Pathology Department transcending the boundaries of traditional coursework, offering an exploration of pathology from both clinical and research point of view. The student will understand how the pathologist integrate the disparate pieces of the puzzle – clinical information, macroscopic, microscopic, and molecular analyses – to render a meaningful pathological diagnosis for the patients. In addition, students will understand the opportunities of translational research starting from tissue samples. This Honor Track will provide a solid base for both future residents in Pathology and for students who want to approach any other specialty, being aware of the implications of a pathological report and of the key role of the pathologist in the multidisciplinary management of the patient

Organization

The track will be organized as follows:

- Initial intensive period: 2 weeks during the summer of the fourth year: August 25th - September 5th 2025
- One monthly activity over the two semesters of the fifth year
- Middle intensive period: 1 week during the winter of the fifth year
- Final intensive period: 2 weeks during the summer of the fifth year.

Each year, the students must rotate in different subspecialties of Pathology, attend frontal lectures, attend autoptic activity and intraoperative examinations (frozen sections).

Types of activities

During the intensive periods students will be exposed to the different surgical areas participating in the following type of activities:

- Diagnostic activity with examination of glass/digital slides (histology and cytology)
- Macroscopical examination and autopsies

- Molecular pathology and laboratory of Precision Medicine
- Seminars and clinical cases discussion
- Participation to multidisciplinary tumor boards (MTB)

In total, the student is required to carry out a five-week rotation in the Pathology Dept. Students will be exposed to the following pathology subspecialties: breast pathology, endocrine pathology, uropathology, digestive pathology, hematopathology, liver pathology, pathology of soft tissues and bone, dermatopathology, pulmonary pathology, autoptic pathology, cytopathology. In addition, a rotation in the Precision Medicine lab will be available.

During the rotations, the student will be supervised by a tutor and will be required to fill in a weekly diary on a daily basis including reflections, questions, and take-home messages.

At the end of this period the students must ensure that the diary is signed by their tutor and delivered to the coordinator of the track.

Assistance and guidance for students

Each student selected for the HTS will be entrusted to a tutor for each intensive period for assistance and guidance during the activities.

The contact email for administrative issues is honortracks@hunimed.eu.

Learning objectives

Knowledge and understanding

By the end of the course the student will acquire the following knowledge:

- Knowing methods and technologies for pathological examination of specimens.
- Being aware of the role of the pathologist in the MTB.
- Learning the basic macroscopic and microscopic features of neoplastic and non-neoplastic disease
- Learning how to interpret a pathological report
- Understanding the indication of intraoperative examinations and autopsy
- Understanding the role of immunohistochemistry for diagnostic, predictive, and prognostic purposes
- Understanding the role of molecular

Application of knowledge and understanding

By the end of the course the student will be able to:

- Autonomously recognize basic histological patterns (normal Vs neoplastic; inflammatory infiltrate)
- Autonomously recognize macroscopic features of tumors
- Interpret clinico-pathological correlations at autopsy
- Conceive a clinico-pathological research study

Assessment

At the end of the first intensive period students will be evaluated on:

- Professionalism: overall professional behaviour during the period considering attendance, readiness, punctuality, diary completion...)
- Knowledge acquired: discussion of clinical cases

Progression from the first intensive period to the rest of the track will be based on successfully passing the first evaluation.

Activation of the Path

This Honors Track will be activated with a minimum number of 1 student. A maximum of 7 students will be selected per edition.

Annex E HONORS TRACK IN INFECTIOUS DISEASES and CLINICAL MICROBIOLOGY (IDi-Me)

Antibiotics are not for all (infections)

Cento Valeria, Bartoletti Michele

Purpose and objectives

Infectious diseases were the most common cause of death until the 20th century, when life expectancy strongly increased reflecting progress in controlling infectious diseases through antimicrobial drugs. Since their discovery, antibiotics have proven to be the most effective intervention in human medicine. Countless human lives have been saved by their broad availability. Sadly, the overuse and misuse of this precious resource have brought us to a global crisis of antimicrobial resistance. The importance of reducing overuse and misuse of antibiotics by promoting prudent use is one fundamental component of this solution - the concept of antimicrobial stewardship.

Knowledge acquired during the Honors Track in Infectious Diseases and Clinical Microbiology (IDi-Me) is essential to gain an on-field preparation on infection diagnosis, antibiotic prescribing practices, understand the role of diagnostic and antimicrobial stewardships, and provide a solid bases for aspiring future residents in Clinical Microbiology or Infectious Diseases. The course should help the students to understand their aptitude for managing infective patients using innovative diagnostic tools and antimicrobial stewardship across different settings and patient populations, with a collaborative and cross-disciplinary approach that will guide them from principles to bedside, passing through the laboratory.

Organization

The track is addressed to 4th year Medical students, while **MEDTEC students must be enrolled in the 5th year**. The track is organized as follows:

- Intensive period #1: 3 weeks of medical practice in Infectious Disease Unit during the summer of the fourth year for medical students and of the fifth year for MEDTEC students to be selected with the tutor from July 1-31st, 2025;
- Intensive period #2: 2 weeks of laboratory practice during the winter break of the fifth year for medical students and of the sixth year for MEDTEC students
- One monthly lecture/seminar on hot topics over the two semesters of the fifth year for medical students and of the sixth year for MEDTEC students
- Participation at two scientific events during the two semesters of the fifth year for medical students and of the sixth year for MEDTEC students

- One assignment at the end of the Track (May)
- Each year, the students can attend various clinical activities, in-class lectures/seminars/journal clubs/scientific events, and simulation activities.

Types of activities

During the intensive periods, students will participate in IDi-Me activities:

- Clinical activity in Infectious Disease Ward
- Clinical activity (consultancies) in different hospital wards
- Microbiology laboratory
- Outpatient clinics
- Seminars/Lectures
- Journal Clubs
- Scientific events
- Simulation

In total, the student is required to carry out a three-week clinical practice with Infectious Diseases specialists and a two-week laboratory practice in the Microbiology Laboratory. During the rotations and laboratory practice the student will be supervised by a tutor and will complete a weekly diary on a daily basis including reflections, questions, and take-home messages. At the end of this period the students will ensure that the diary is signed by their tutor and delivered to the coordinators of the track.

Learning objectives

Knowledge and understanding

By the end of the course the student will acquire the following knowledge:

- Gold standard diagnostic approaches and treatment guidelines for infectious diseases, including their limitations.
- Novel therapeutic approaches and protocols, including newly available drugs.
- Current practice of antibiotic prescribing in both hospital and outpatient settings.
- Laboratory assessment of bacterial drug resistance by both phenotypic and genotypic approaches.
- Principles of management of hospital-acquired infections, including implant-associated infections (i.e. prosthetic joint infections, etc.) and infections in immune-compromised patients
- Principles of management of clinical emergencies (i.e. sepsis).
- Multidisciplinary approach to infection by multidrug resistant pathogens, with particular focus on fragile patients.

- Principles of clinical trials participation in Clinical Microbiology and Infectious Diseases.
- Principles of translational clinical and research in Clinical Microbiology and Infectious Diseases.

Application of knowledge and understanding

By the end of the course the student will be able to:

- Identify the clinical features of the main infectious caused by bacterial and fungal pathogens.
- Perform, understand and critically evaluate the phenotypic and genotypic characterization of drug resistance.
- Understand the process to decide the most suitable treatment (including innovative drugs) or treatment protocol for each single patient, focusing on an optimized antibiotic prescribing practice.
- Actively collaborate in clinical trials.
- Actively participate in clinical and translational research projects.
- Critically revise scientific articles.

Assessment

At the end of the first intensive period students will be evaluated on:

- Professionalism: overall professional behaviour during the period considering attendance, readiness, punctuality, diary completion, and critical interaction with biologists, laboratory technicians, physicians and scientists;
- Knowledge acquired: discussion of clinical cases;
- Progression from the first intensive period to the rest of the track will be based on successfully passing the first evaluation.

Activation of the Track

The IDi-Me track will be activated with a minimum number of 2 students, maximum 4.