

43. FLORENCE FRAGRANCES SCHOOL

Dipartimento di Chimica "Ugo Schiff"

Direttori del corso	Pierandrea Lo Nostro (referente organizzativo) Antonella Capperucci
Persona di riferimento cui rivolgersi per informazioni relative all'organizzazione della didattica, calendario delle lezioni, contenuti del corso	Duccio Tatini duccio.tatini@unifi.it +39 055 4573024 Website: https://www.corsofragranze.eu/
Obiettivi formativi	<p><i>Florence Fragrances School</i> is a post-graduate specialization course focused on the theoretical concepts and practical aspects of fragrance formulation for industrial and scientific applications. The program spans a broad range of disciplines, from chemistry to olfactory training, covering the following main topics:</p> <ul style="list-style-type: none">• Fragrance design• Physicochemical properties of fragrances' main components• Synthesis of organic odor molecules• Analytical techniques for fragrance detection• Olfactory Families• Formulations• Officinal plants biology• Neurophysiological aspects of olfaction• Marketing• Packaging• Sustainability• Regulatory and Quality Control• History of perfumes <p><i>Florence Fragrances School</i> represents a unique opportunity in the academic panorama.</p> <p>The Course is offered by the University of Florence: the city of Florence has a long history of perfumery and fragrance manufacturing, from Renaissance up to the present time.</p> <p>The Course is well suited for graduate students interested in fragrance formulation, particularly those who seek a high-level, specific knowledge in this field for a potential future employment. The program is also designed for all the stakeholders (employees, operators, managers, R&D) involved in cosmetic, textile, cleaning products and food industry, in which fragrances play a key role in the formulation of commercial products.</p> <p>The course goals and main learning objectives are:</p> <ul style="list-style-type: none">• Advanced expertise in the identification of perfumes' main components and features• Providing all the tools (theory, methods, protocols) for fragrance formulation

	<ul style="list-style-type: none"> • Stimulating the design of innovative formulations for industrial applications • Creating new connections and opportunities for young graduates
Partnership	<ul style="list-style-type: none"> • Firmenich Spa • IFF, International Flavors & Fragrances Inc. • Muller & Koster Spa
Titoli di accesso	<p>Per essere ammessi al Corso occorre essere in possesso di uno dei seguenti titoli:</p> <ul style="list-style-type: none"> • laurea triennale conseguita secondo l'ordinamento ex D.M. n. 270/2004 (oppure laurea specialistica ex D.M. n. 509/1999 equiparata ai sensi del D.l. 9 luglio 2009) in una delle seguenti classi: L-1 Beni culturali L-2 Biotecnologie L-7 Ingegneria civile e ambientale L-9 Ingegneria industriale L-13 Scienze biologiche L-25 Scienze e tecnologie agrarie e forestali L-26 Scienze e tecnologie agro alimentari L-27 Scienze e tecnologie chimiche L-29 Scienze e tecnologie farmaceutiche L-32 Scienze e tecnologie per l'ambiente e la natura • laurea magistrale conseguita secondo l'ordinamento ex D.M. n. 270/2004 (oppure laurea specialistica ex D.M. n. 509/1999 equiparata ai sensi del D.l. 9 luglio 2009) in una delle seguenti classi: LM-6 Biologia LM-7 Biotecnologie agrarie LM-8 Biotecnologie industriali LM-9 Biotecnologie mediche, veterinarie e farmaceutiche LM-13 Farmacia e farmacia industriale LM-21 Ingegneria biomedica LM-22 Ingegneria chimica LM-23 Ingegneria civile LM-53 Scienza e ingegneria dei materiali LM-54 Scienze chimiche LM-60 Scienze della natura LM-61 Scienze della nutrizione umana LM-69 Scienze e tecnologie agrarie LM-70 Scienze e tecnologie alimentari LM-71 Scienze e tecnologie della chimica industriale LM-73 Scienze e tecnologie forestali e ambientali LM-86 Scienze zootecniche e tecnologie animali • diploma di laurea conseguito secondo un ordinamento antecedente al D.M. n. 509/1999 in: Biotecnologie agro-industriali Biotecnologie farmaceutiche Biotecnologie indirizzo Biotecnologie agrarie vegetali Biotecnologie indirizzo Biotecnologie industriali

Biotechnologie indirizzo Biotechnologie mediche
Biotechnologie indirizzo Biotechnologie veterinarie
Biotechnologie
Chimica e tecnologie farmaceutiche
Chimica industriale
Chimica
Farmacia
Ingegneria biomedica
Ingegneria chimica
Ingegneria civile
Ingegneria dei materiali
Scienza dei materiali
Scienze agrarie
Scienze agrarie, tropicali e subtropicali
Scienze ambientali
Scienze biologiche
Scienze e tecnologie agrarie
Scienze e tecnologie alimentari
Scienze e tecnologie delle produzioni animali
Scienze forestali ed ambientali
Scienze naturali

Course admission requirements for students with a Degree from a non-Italian University

• **Bachelor's Degree in one of the following areas:**

Cultural Heritage Studies
Biotechnology
Civil and Environmental Engineering
Industrial Engineering
Biology
Agricultural and Forestry Sciences
Food Science and Technology
Chemistry
Pharmacy
Environmental Sciences

• **alternatively, a Master's Degree in one of the following areas:**

Biology
Agricultural Biotechnologies
Industrial Biotechnologies
Medical, Pharmaceutical, Veterinary Biotechnologies
Pharmacy
Biomedical Engineering
Chemical Engineering
Engineering

	<p>Materials Science & Engineering Chemistry Natural Sciences Nutritional Science Agricultural Sciences and Technologies Food Science and Technologies Industrial Chemistry Forestry and Environmental Sciences Zotechnical Sciences and Animal Technologies</p> <p>• or a 5-years Academic Degree in one of the following areas:</p> <p>Agricultural and Industrial Biotechnologies Pharmaceutical Biotechnologies Medical Biotechnologies Veterinary Biotechnologies Biotechnologies Pharmaceutical Chemistry Industrial Chemistry Chemistry Pharmacy Biomedical Engineering Chemical Engineering Civil Engineering Materials Engineering Materials Science Agricultural Sciences Tropical and Sub-tropical Agricultural Sciences Environmental Sciences Biology Food Science and Technology Animal Science and Technology Forestry and Environmental Sciences Natural Sciences</p> <p>The validity of the Academic degree will be evaluated by the Director and the Course Admission Committee. If the evaluation is positive the applicants will have access to the registration and enrollment process.</p>
<p>Modalità di selezione qualora il numero delle domande sia superiore al numero dei posti</p>	<p>Once the maximum number of participants is reached all other requests will not be considered. In case of renunciation or irregularities in the application procedure the first applicants excluded will be enrolled.</p>
<p>Modalità didattiche</p>	<p>Remote online lessons (live and recorded)</p>

	The smelling and formulation modules will be performed from remote. The participants will receive a didactic training kit via express courier.
Lingua	English language
Obblighi di frequenza	80%
Sede di svolgimento	Online (Department of Chemistry "Ugo Schiff", University of Florence)
Durata	May 22, 2023 – July 31, 2023; September 1, 2023 -October 31, 2023
Crediti Formativi (CFU) e ore totali del corso	Frontal Teaching (online): 80 h, 13 CFU/ECTS Practical Teaching (online): 51 h, 2 CFU/ECTS
Modalità di verifica dell'apprendimento/tipologia della prova finale	7 midterm exams (via webform) on: Organic Chemistry, Physical Chemistry, Analytical Chemistry, Olfactive Families, Toxicology, Neurophysiology of Olfaction, Fragrances and Flavors. The final examination will focus on the creation and the discussion of a fragrance formulation.

Posti disponibili e quote di iscrizione	
Ordinari	
Numero minimo	10
Numero massimo	60
Quota di iscrizione	1.500€
Quota di iscrizione ridotta per giovani laureati entro il ventottesimo anno di età	
Quota di iscrizione	1.300€
Posti in sovrannumero gratuiti	
Dottorandi dell'Ateneo fiorentino	2
Uditori	
Soggetti in possesso di iscrizione ad un ordine, collegio o albo professionale, ma non di diploma di laurea	
Massimo posti	5
Quota	1200€