



Facoltà di Scienze e Tecnologie

UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2016/17
MASTER DEGREE
Molecular Biotechnology and Bioinformatics (Classe LM-8)
Enrolled until 2015/2016 academic year

HEADING

Degree classification - Denomination and code:	LM-8 Industrial biotechnologies
Degree title:	Dottore Magistrale
Curricula currently available:	
Length of course:	2 years
Credits required for admission:	180
Total number of credits required to complete programme:	120
Years of course currently available:	2nd
Access procedures:	Open, subject to completion of self-assessment test prior to enrolment
Course code:	F96

PERSONS/ROLES

Head of Study Programme

Prof. Paolo Landini

Tutors - Faculty

Proff: Federica Briani, Piero Morandini, Giulio Pavesi

Docente tutor responsabile per l'Internazionalizzazione: Prof. Laura Popolo

Degree Course website

<http://www.ccdbiotec.unimi.it>

Via Celoria, 20 Phone 800188128 (da cell. 199188128). Per gli orari di sportello consultare <http://www.unimi.it/studenti/segreteria/2462.htm> e www.unimi.it/infostudente.it (previa registrazione)

Via Celoria, 26 - 2° piano torre A. Phone 02.503.14870 Per gli orari di sportello consultare il sito: <http://www.ccdbiotec.unimi.it> Email: biotecindamb@unimi.it
Edifici Biologici (Via Celoria, 26); Settore Didattico (Via Celoria, 20); Edificio Golgi (Via Golgi, 19).

EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING PROGRAM

The University of Milan supports the international mobility of its students, offering them the opportunity to spend periods of study and training abroad, a unique opportunity to enrich their curriculum in an international context.

How to participate in Erasmus mobility programs

To gain access to mobility programs for study purposes, lasting 3-12 months, the enrolled students of the University of Milan must attend a public selection that starts usually around the month of February each year through the presentation of specific competition announcements, which contain information on available destinations, respective duration of the mobility, requirements and deadlines for submitting the online application.

The selection, aimed at evaluating the proposed study abroad program of the candidate, knowledge of a foreign language, especially when this is a preferential requirement, and the motivations behind the request, is performed by specially constituted commissions.

Each year, before the expiry of the competition announcements, the University organises information sessions for the specific study course or groups of study courses, in order to illustrate to students the opportunities and participation rules.

To finance stays abroad under the Erasmus + program, the European Union assigns to the selected students a scholarship that - while not covering the full cost of living abroad - is a useful contribution for additional costs as travel costs or greater cost of living in the country of destination.

The monthly amount of the communitarian scholarship is established annually at national level; additional contributions may be provided to students with disabilities.

In order to enable students in economic disadvantaged conditions to participate in Erasmus+ program, the University of Milan assigns further additional contributions; amount of this contributions and criteria for assigning them are established from year to year.

The University of Milan promotes the linguistic preparation of students selected for mobility programs, organising every year intensive courses in the following languages: English, French, German and Spanish.

The University in order to facilitate the organisation of the stay abroad and to guide students in choosing their destination offers a specific support service.

More information in Italian are available on www.unimi.it > Studenti > Studiare all'estero > Erasmus+

For assistance please contact:
 Ufficio Accordi e relazioni internazionali
 via Festa del Perdono 7 (ground floor)
 Tel. 02 503 13501-12589-13495-13502
 Fax 02 503 13503
 E-mail: mobility.out@unimi.it
 Desk opening hour: Monday-friday 9 - 12

1st COURSE YEAR (disactivated from academic year 2016/17) Core/compulsory courses/activities common to all curricula				
Distribution	Learning activity	Teaching units/modules	Ects	Sector
	Microbiologia cellulare e molecolare		6	BIO/11, BIO/19, BIO/18
	Metodi chimici avanzati applicati alle biotecnologie		7	CHIM/02, CHIM/06
	Bioinformatica e genomica comparata		6	BIO/11, BIO/18
	Processi e prodotti biotecnologici		6	CHIM/11, CHIM/06
	Functional genomics (english)		6	BIO/11, BIO/18
	Metodi matematici e fisici applicati alle biotecnologie		6	FIS/03, MAT/08
	Biologia molecolare e cellulare avanzata		6	BIO/11, BIO/06
	Biochemistry applied to the rational design of biologically active molecules		5	BIO/10
		Total compulsory credits	48	
2nd COURSE YEAR Core/compulsory courses/activities common to all curricula				
Distribution	Learning activity	Teaching units/modules	Ects	Sector
1 semestre	Brevettazione e trasferimento tecnologico		6	IUS/01, AGR/01, IUS/04
2 semestre	Lingua Inglese: corso avanzato		3	L-LIN/12
		Total compulsory credits	9	
Other learning activities chosen by the student for all curricula				
Final learning activities for all curricula				
2 semestre	Prova finale		42	
		Total compulsory credits	42	

ACTIVE CURRICULA LIST

Molecular biotechnologies for industry and environment Course years currently available: 2nd
 Bioinformatic Course years currently available: 2nd

CURRICULUM: [F96-A] Molecular biotechnologies for industry and environment

2nd COURSE YEAR Core/compulsory courses/activities common Curriculum-specific features Molecular biotechnologies for industry and environment				
Distribution	Learning activity	Teaching units/modules	Ects	Sector
1 semestre	Applicazioni biotecnologiche per l'ambiente		6	BIO/19
		Total compulsory credits	6	
Other learning activities chosen by the student specific to the curriculum Molecular biotechnologies for industry and environment				
1 semestre	Bio-nanotecnologie		6	CHIM/04, FIS/03
2 semestre	Bioteecnologie vegetali industriali e ambientali		6	BIO/18, BIO/04

CURRICULUM: [F96-B] Bioinformatic

Other learning activities chosen by the student specific to the curriculum Bioinformatic				
1 semestre	Bio-nanotecnologie		6	CHIM/04, FIS/03
2 semestre	Metodi bioinformatici		6	INF/01
1 semestre	Systems biology		6	INF/01
2 semestre	Proteomica strutturale		6	BIO/10