GENERALITA'

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<td>Dottore Magistrale</td>
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</table>

RIFERIMENTI

Presidente Collegio Didattico
Prof. Mirko Baruscotti

Coordinatore Corso di Laurea
Prof.ssa Luisa Guerrini (luisa.guerrini@unimi.it)

Docenti tutor
Academic guidance tutor- Katia Petroni and Saverio Minucci
Erasmus and international mobility tutor- Cristina Bonza
Study plan tutor- Monica Beltrame
Internship tutor- Lucio Conti
Dissertation tutor- Luisa Guerrini
Master's degree admission tutor- Luisa Guerrini
Credit recognition tutor- Luisa Guerrini

Site web del corso di laurea
http://mbc.cdl.unimi.it

International Students Office
Address: via S. Sofia, 9/1, Milan. https://www.unimi.it/en/international/coming-abroad/international-students-office-welcome-desk
Email: international.students@unimi.it

Matriculation and enrollment
http://www.unimi.it/en/study/bachelor-and-master-study/degree-programme-enrolment/enrolment-masters-programme

MBC email
Email: bmc@unimi.it

Student administrative office
Address: via Celoria, 18, 20133 Milan. Tel. Phone: (+39) 199.188.128/ From abroad: 0039 056676357 Opening times indicated on this page: http://www.unimi.it/en/study/student-services/welcome-desk-infostudenti/student-desks-locations-and-opening-hours To contact the office online(after registration) http://www.unimi.it/en/study/student-services/welcome-desk-infostudenti

Student information office
Address: via Celoria, 26, 20133 Milan – 2nd floor, A Building. Opening times: Monday to Friday, 10 am - 11:45 am
Email: ct.biol@unimi.it

CARATTERISTICHE DEL CORSO DI STUDI

Premessa
The Department of Biosciences (DBS) at the Università degli Studi di Milano is the reference point and the main Institution responsible for the MBC Master Degree course.

Obiettivi formativi generali e specifici
The MBC course covers all principal areas of the LM-6 Biology course, with a particular focus on biomolecular subjects, thus distinguishing it from other courses of the same LM Class. The main goal of the MBC course is to train biologists in advanced biomolecular research and to allow them to address present and future scientific challenges.

An in-depth and up-to-date knowledge will be provided for the following subjects: molecular genome analysis; regulation of gene expression; structure and function of biological macromolecules and their interactions in supramolecular complexes; cellular communication, signal perception and transduction, metabolic regulation, biomolecular engineering and computing. Both theoretical and practical aspects of biomolecular research will be addressed. Graduate students will learn to apply novel and emerging research technologies/approaches, cutting-edge data acquisition systems and analysis, and will have hands-on experience with top-level nanotechnology, hosted in the research laboratories of the DBS. MBC graduates will be perfectly suited for entering a PhD school for advanced education.

Risultati di apprendimento attesi
According to the Dublin Descriptors, expected learning outcomes are:

KNOWLEDGE AND UNDERSTANDING. Comprehensive knowledge in specific areas of molecular and cellular biology: protein biochemistry, microbiology and genetics, biomedicine and bioinformatics. These subjects, previously introduced during the bachelor degree program, are studied in depth in the Master degree program.

APPLYING KNOWLEDGE AND UNDERSTANDING. Skills to address complex issues and to carry out research activities in the specific fields of molecular and cell biology, genetics and microbiology and in related areas of research in chemistry, biomedicine and bioinformatics. Skills to carry out analysis and characterization of complex bio-molecular systems by using innovative procedures and state-of-the-art instruments. Skills to rationally and systematically interpret data obtained from laboratory observations and measurements. Learning up-to-date methodologies for biological analysis and data processing; the development of interpretative models will be assessed throughout the duration of the experimental work involved in the Master thesis and during the writing of the dissertation. Profound knowledge and awareness of bio-safety, the appropriate procedures for chemical waste management, and of existing laws and regulations, will also be acquired.

DECISION-MAKING. Acquiring independent judgment regarding: interpreting experimental data and mastering the appropriate tools in relation to different scientific and technical disciplines; designing and implementing complex experiments, by managing time and procedures; assessing and quantifying final outcomes; directing projects, structures and personnel; identifying new perspectives and innovative development strategies; evaluating, interpreting and revising literature research data; professional deontology; ability to formulate analytical problems and to propose ideas and innovative solutions; information-retrieval skills, in relation to primary and secondary information sources, including information retrieval and evaluation on chemical topics through on-line computer searches.

COMMUNICATION SKILLS. Skills to comprehensively communicate research results, conclusions and related knowledge and rationale, to specialist and non-specialist audiences in molecular and cell biology. Ability to communicate accurately and fluently in English with foreign partners.

LEARNING SKILLS. Acquiring adequate skills for the development and improvement of competencies in a self-directed and independent way, in relation to the ability to conduct on-line literature searches by accessing databases and online information. Achieving competence in the use of all instruments and methodologies, which allow personal knowledge to be continuously updated. Such skills that include the identification of specific information both in the area of molecular and cell biology (specialized texts, scientific journals etc.) and in related and complementary disciplines (also of legal and/or economic character), are essential for the management of complex projects.

The skills listed above will be achieved through lectures, guided and independent study and through an extended period of laboratory internship for the preparation of the final dissertation. The achievement of course-specific educational goals will be assessed: through regular written and/or oral exams; during the experimental thesis work and writing the dissertation; by evaluating students’ awareness and participation in the educational activities and critical thinking skills. The evaluation commission at the final dissertation will also assess the skills of the student in presenting, explaining and discussing his/her work in proper scientific terms.

Profilo professionale e sbocchi occupazionali
The MBC graduate will have acquired has specialized and extensive knowledge in the field of molecular and cell biology, and competences in related analytical methodologies and experimental techniques. He/she will be particularly knowledgeable about the comprehension of complex biomolecular systems and of their applications in the biomedical and pharmaceutical industry, as well as about their transfer to society in relation to food, environment and cultural assets conservation.

The MBC Master Degree course provides the necessary training to independently to practise biology, or to be employed in: -basic and applied research activity in universities and in other public or private research centers; -biomedical and pharmaceutical industries, spin-off and startup companies for self-directed and independent work, enabling graduates to hold positions of responsibility in the implementation of research projects; -promotion and development of the scientific and technological innovation; -planning and management of industrial technologies; -functions of high responsibility in the industrial, environmental, health care, and public service sectors; -biology teaching at all levels.

In addition, graduates will access sectors such as environmental science, scientific dissemination, intellectual property (patents) and business management. Moreover, full immersion English courses, provided by MBC, will allow graduates to perform equally well in job seeking in Italy and abroad.

The MBC graduate can be legally admitted to the “A Section” of the National Biologists Register.
Indicatively, the different sectors of the labor market accessible to Master graduates are hereafter outlined, with reference to the intellectual, scientific and highly-specialized professions provided by the ISTAT 2008, NUP Isfol-Istat Classification of Professions:

- Biologists and related professions - (2.3.1.1.1)
- Researchers and technicians graduated in the area of biological sciences - (2.6.2.2.1)

Conoscenze per l’accesso

For admission to the MBC course, students must meet curriculum requirements and have suitable background knowledge (DM 270/04).

Entry is open to:

- Graduates in Biological Sciences (Class L-13) from any Italian University that follows CBUI rules, as adequately certified (www.cbui.unito.it). In this case, credits acquired by the candidate as an undergraduate will be fully recognized and will meet the curricular prerequisites.
- Biological Sciences (Class L-13) graduates from Universities that do not follow CBUI rules, graduates in other related areas and foreign graduates, who have acquired a title equivalent to the I level degree by Italian law, are requested to have earned at least 90 CFU in Biological Sciences (of Class L-13) subjects, including: basic subjects (such as mathematics, physics, statistics, informatics) and biological subjects (such as biochemistry, molecular biology, genetics, microbiology, general physiology, plant biology, developmental biology, others).

Students lacking adequate curricular requirements can contact the Coordinator of the Master course well in advance in order to plan acquisition of the requested CFU before the application deadline. The lacking CFU can be acquired by passing the relevant exams at the University of Milan or any other University.

For all students, the minimum requirement for knowledge of the English language is B1 level ("lower intermediate") of the Common European Framework of Reference (CEFR) for Languages or equivalent certification.

Struttura del corso

The duration of the MBC Master degree program is two years, each year is subdivided into two semesters. 120 educational credits (CFU) are required to complete the Master. Each credit corresponds to a standard student workload of 25 hours, including:

- 8 hours of lectures followed by 17 hours of individual study;
- 16 hours of practical labs followed by 9 hours of individual study;
- 25 hours of training activities related to the thesis.

The curriculum includes mandatory, guided-and open-choice courses. Subject choices are made as follows:

- 7 mandatory courses (45 CFU in total);
- 3 guided-choice courses on principal subjects (18 CFUs in total);
- 2 open-choice courses (12 CFUs in total), which may be freely selected by the student from all the courses offered by the University (including the MBC courses in the guided-choice list, which have not already been selected), provided that they are coherent with the study plan. If unavailable in English, open-choice courses can be taken in Italian provided that the student is fluent in Italian language.

In the first year (I and II semesters), students are encouraged to acquire credits by following at least 8 distinct courses. 3 CFUs will be assigned for English language skills.

During the second year, the workload is centered on the experimental research activity related to the thesis (42 CFU in total, 12 of laboratory training and 30 acquired upon the final thesis exam) and on one course regarding laboratory methods.

Obiezione di coscienza

In the MBC Master degree the use of animals for teaching purposes is not allowed as stated by the law: art. 5f of the Legislative Decree 26/2014. Such procedures are allowed during the traineeships for thesis preparation. However, they must be carried out exclusively by authorized staff, since, in this case, the Legislative Decree 26/2014 does not apply. According to Italian law n. 413, October 12 1993, “Norme sull’obiezione di coscienza alla sperimentazione animale”, students have the uncontestable right to conscientiously object to participation in any experimental activity using animals. In this case, the Teaching Board will suggest alternative traineeships, that are consistent with the educational goals of the MBC course, to ensure the correct acquisition of the study credits necessary for degree completion.

Area didattica

Classrooms are located in the University buildings in: Via Celoria, 26 (Edifici Biologici); Via Celoria, 20 (Settore Didattico); Via Golgi, 19 most laboratories are located in the Department of Biosciences, Via Celoria 26, 20133 Milano.

Biblioteche

Biblioteca di biologia, informatica, chimica e fisica (Via Celoria, 18 – Milano). Link: http://www.sba.unimi.it/en/libraries/13453.html

Tutorato

Tutors will provide students with academic advice, guidance on their course choices and advice on where and how to seek help with personal problems.

Attività obbligatorie
All above-mentioned training activities, including mandatory, guided and open-choice courses, and experimental research activities during the thesis internship, are compulsory for completing a Master Degree.

Prove di lingua / Informatica
To obtain the degree, students are required to demonstrate an English language proficiency at level B2 within the Common European Framework of Reference for Languages (CEFR). This level can be assessed in the following ways:
- by submitting the language certificate achieved no more than three years prior to the submission, at level B2 or higher, recognised by the University (the list of recognised language certificates can be found at https://www.unimi.it/en/study/language-proficiency/placement-tests-entry-tests-and-english-courses). The language certificate must be uploaded during the admission process;
- by taking the Placement Test, organised by SLAM exclusively during the first year, from October to January. Students who fail to reach level B2 will have to attend an English course organised by SLAM. The Placement Test is compulsory for all students who do not have a valid language certificate.

Students who do not take the Placement Test within the deadline and students who fail the SLAM end-of-course test within six attempts will have to obtain a language certificate within the year in which the language exam is scheduled.

Level of English assessed through a computer-based test during the bachelor’s degrees obtained at the University of Milan: English levels B2 achieved no more than four years previously are deemed valid. The verification is automatic with no need to attach any certificate during the application phase.

Obbligo di frequenza
Course attendance is strongly recommended.

Modalità di valutazione del profitto
University credits will be earned through: lectures, exercises, laboratories and dissertation, normally carried out at the DBS of the Università degli Studi di Milano. Course exams must be passed, with grades calculated on a 30-point scale, to obtain course credits. Assessment will consist of an oral or written exam. For courses structured into modules, a head lecturer will be identified as the coordinator, and evaluation procedures for course outcomes, and the registration of examination grades, will be agreed by all associated teaching members.

The schedule of the examination sessions for the assessment of the learning outcomes is available through the SIFA online Service. For each course, at least 6 sessions per year are scheduled, during January-February, June-July, September.

Regole generali per iscrizione e ammissione agli appelli d’esame
Exam registration is compulsory and must be carried out through the SIFA site (available at http://www.unimi.it/en/study/student-services/technology-and-online-services/online-services-former-sifa) in order to allow CFUs to be automatically accredited to the student’s personal record.

Students are advised to only sit exams during course breaks.

Formulazione e presentazione piano di studi
The study plan should be coherent with the principal and related courses of the Master and with the subject of the experimental thesis work. The student is free to include, in his/her study plan, courses that differ from those suggested, provided that they match the requested CFU. However, such courses must be previously evaluated by the Study Plan Committee and approved by the Teaching Board.

The study plan must be submitted online in the 2nd Year, via the web address https://www.unimi.it/en/study/bachelor-and-master-study/following-your-programme-study/following-your-plan-study, within the deadline set by the Segreteria Studenti, generally between December and March, if only MBC suggested courses have been selected. Students taking electives outside of MBC are requested to submit a study plan for approval by the Study Plan Committee by May of the first year. For information on dates and procedures for submitting the official study plan, please visit the relevant section of the UNIMI website.

Approval of the study plan by the Teaching Board is mandatory. To favor the correct planning of educational activities, students are encouraged to discuss the study plan with their tutors during the first year and/or contact the Student Information office, at the DBS (floor 2A).

NB: Admission to the final exam depends on correlation between the list of passed exams and the last approved official study plan. In the event of discrepancies between the student’s educational career and the relevant study plan, the student cannot be admitted to the final exam.

Caratteristiche Tirocinio
THE THESIS
In order to obtain 30 CFU in the final exam, the student must acquire 12 CFU of laboratory training and present his/ her Master thesis to the thesis committee. The Master thesis is a dissertation written in English and regards the research activities performed by the student during the 2nd year Internship in a research laboratory, under the guidance of a supervisor (Relatore) and a co-tutor (Correlatore). The thesis contains original data generated on the given research subject belonging to the principal disciplines of the MBC Master course. The internship lasts about one solar year (including 12 CFU of laboratory training) and normally starts in the summer of the first year. Compilation theses are by no means allowed. Master Theses are internal and external. Internal Experimental Theses are carried out at the DBS or in other Departments of the University, to which the BMC teaching staff belong.
External Experimental Theses are carried out in other Departments of the University, or in other public Institutions with adequate facilities. Authorization to perform an external Thesis is given by the Teaching Board, after careful evaluation of the proposed thesis subject and of the quality of the proponent laboratory. To place an application for an External Thesis the student must follow the rules indicated at http://www.ccdbiol.unimi.it (procedure per l’attivazione di stage esterno). The application must be submitted well in advance, as it requires the approval of the Teaching Board. The Supervisor of an external thesis must be a member of the Teaching Board of Biological Sciences of the DBS.

It is also possible to acquire part of the CFU by means of stages or other kinds of experiences in working environments, providing specific theoretical and technical expertise.

**HOW TO SELECT AN INTERNSHIP AND SUBMIT A THESIS APPLICATION**

As a rule, around February of the first year and October of the second year, students will be informed of the research areas offered in the host laboratories, the starting dates and the number of internships available on the website (http://www.campagnenaturalistiche.unimi.it/offerte_tesi/) and by informative open days organized to present the research interests of the teaching staff and application modalities. Teaching members will communicate place acceptance to students and the MBC Coordinator, within the set deadlines. The internship officially starts upon submission of the appropriate form to the MCB Master’s office (via Celoria, 26 – 2nd floor, tower A).

The MBC Coordinator will ensure that every student is assigned to a laboratory for the internship and will approve an external thesis only if internal placements are unavailable. In this case, the Coordinator will supervise the acceptance procedures of the external thesis by the thesis committee and will also assist the student to identify a Supervisor. The Supervisor must meet the student periodically and to critically evaluate his/her work progress.

The Supervisor is responsible for the quality of the experimental work performed by the student and eventually decides if the student can present his/her thesis in the final exam. The thesis must state on the front page where the internship has been carried out.

**ADMITTANCE TO THE FINAL EXAM**

The student is admitted to the final exam if:

1) he/she has passed the requested mandatory, guided-choice and open-choice courses and has therefore acquired the indicated number of CFU, including the 3 CFU assigned to the advanced English knowledge and the 12 CFU of laboratory training;

2) he/she has completed the internship, as stated by the certificate.

**Caratteristiche della prova finale**

The MBC Master Degree will be obtained by passing a final assessment, which consists of submitting and presenting a dissertation in English on the research performed by the student during his/her internship. The work will be presented in English and will be followed by a public debate in front of the thesis committee. The committee will evaluate the work presented and the student’s overall performance throughout the two-year Master, before awarding a grade based on a 110-point scale. The degree issued by the Committee is “Laurea Magistrale” (Master Degree) in Biology.

**Orario lezioni**

The first Semester starts on October 1st 2019 and ends on January 20th 2020.

The second Semester starts on March 2nd 2020 and ends on June 19th 2020.

The complete timetable of the individual courses will be posted at the following address:

https://mbc.cdl.unimi.it/en/study/course-timetable

**ESPERIENZA DI STUDIO ALL’ESTERO NELL’AMBITO DEL PERCORSO FORMATIVO**

The University of Milan supports international mobility by providing its students with the opportunity to spend study and internship periods abroad. It is a unique chance to enrich your educational path in a new exciting environment.

The agreements entered into by the University with over 300 universities from 30 different countries under the European Erasmus+ programme allow regularly enrolled students to carry out part of their studies at one of the partner universities or to undertake internships at companies, training and research centres and other organizations.

Similar international mobility opportunities are provided outside Europe, through agreements with a number of prestigious institutions.

**Cosa offre il corso di studi**

MBC students are given the opportunity to spend part of their curriculum abroad, at a University within the European Union (EU), in the context of the Erasmus+ program of the European Commission. Students can attend courses and sit exams that can be included in the core curriculum and/or perform their practical thesis in several European Universities localized in North Europe, France, Germany, Ireland, Poland and Iberian Peninsula (see http://eng.dbs.unimi.it/ecm/home/erasmus/outgoing-students/biological-sciences). Most of the Northern European Universities offer courses taught in English.

The Erasmus+ call is released each year, usually in February. More information can be found at https://www.unimi.it/en/international/study-abroad/studying-abroad-erasmus

Accepted students must present a study plan that reports all the activities he/she intends to perform abroad, detailing the corresponding CFU; the number of proposed CFUs should approximately correspond to those the student would have achieved over the same time period in his/her university. The proposed study plan, to be carried out under the Erasmus+ programme, must be approved by the Department Management Board and the MBC coordinator, within the set deadlines. The internship officially starts upon submission of the appropriate form to the MCB Master’s office (via Celoria, 26 – 2nd floor, tower A).

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Similar international mobility opportunities are provided outside Europe, through agreements with a number of prestigious institutions.

**Cosa offre il corso di studi**

MBC students are given the opportunity to spend part of their curriculum abroad, at a University within the European Union (EU), in the context of the Erasmus+ program of the European Commission. Students can attend courses and sit exams that can be included in the core curriculum and/or perform their practical thesis in several European Universities localized in North Europe, France, Germany, Ireland, Poland and Iberian Peninsula (see http://eng.dbs.unimi.it/ecm/home/erasmus/outgoing-students/biological-sciences). Most of the Northern European Universities offer courses taught in English.

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Accepted students must present a study plan that reports all the activities he/she intends to perform abroad, detailing the corresponding CFU; the number of proposed CFUs should approximately correspond to those the student would have achieved over the same time period in his/her university. The proposed study plan, to be carried out under the Erasmus+
The students of the University of Milan can participate in mobility programmes, which last 3 to 12 months, through a public selection procedure. Ad hoc commissions will evaluate:
• the candidate's proposed study programme abroad
• his/her foreign language proficiency
• the reasons behind his/her application
Call for applications and informative meetings
The public selection generally begins around February each year with the publication of a call for applications specifying the destinations, with the respective programme duration, requirements and online application deadline.

Every year, before the deadline for the call, the University organizes informative meetings to illustrate opportunities and rules for participation to students.

Erasmus+ scholarship
The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which is supplemented by the University funding for disadvantaged students.

Language courses
Students who pass the selections for mobility programmes can benefit from intensive foreign language courses offered each year by the University.

Learn more at https://www.unimi.it/en/international/study-abroad/studying-abroad-erasmus

International Mobility Office
Via Santa Sofia 9 (second floor)
Tel. 02 503 13501-12589-13495-13502
E-mail: mobility.out@unimi.it
Desk opening hours: Monday to Friday 9 am - 12 noon

MODALITÀ DI ACCESSO: 1° ANNO LIBERO CON VALUTAZIONE DEI REQUISITI DI ACCESSO

Informazioni e modalità organizzative per immatricolazione
APPLICATION FORM
Both Italian and foreign students must submit admission applications by the deadlines indicated in the "student area" of the University web portal. Undergraduates who intend to graduate by December 2020 may also apply. Completion of the application form is compulsory and must be submitted electronically to the following address: http://www.unimi.it/en/study/bachelor-and-master-study/degree-programme-enrolment/enrolment-masters-programme/open-admission-master-programmes

BACKGROUND KNOWLEDGE
The prerequisite to access the MBC Master Degree program is an adequate knowledge of the fundaments of biological disciplines. This will be verified through 1) evaluation of the bachelor study program and 2) direct assessment of candidate scientific background knowledge. The candidate’s background knowledge in Biology will be verified by an interview with the Commission for Admittance to the Master, composed by teaching members appointed by the Teaching Board. The interview will evaluate the expertise of the candidate in topics related to the MBC degree, and will ascertain the knowledge of the English language.

The committee evaluates the candidate on a 100-point scale:
- up to 25/100 will be given for the graduation grade;
- up to 10/100 for the curriculum (type of degree, outnumbered free courses, Erasmus experience, others…)
- up to 65/100 for the interview
The minimum requirement for admission is 60/100. As a possible outcome, despite meeting the requested curricular requirements, the candidate may be refused admission; such an outcome will prevent admission for the current year.

For the Academic Year 2020-2021, applicant interviews for those who submit their application within the set deadline (see above, “Application Form”), will take place at the Department of Biosciences, Via Celoria 26, room 2A, on the following
days:
- September 24th 2020 at 14.30, for graduated students;
- November 6th 2020 at 14.30 for students that graduate in September and October;
- January 12th 2021, at 14.30, for students that graduate in December. Students must bring an ID card.

For foreign students who are not resident in Italy and were awarded their bachelor degree abroad, evaluation will be performed, based on the candidate curriculum and students may be invited to an online interview. Foreign students who reside in Italy are classed as Italian citizens and must sit the same exams. It is advisable to check for any possible updates about exam dates and times on the website: https://mbc.cdl.unimi.it

Istruzioni operative

MBC COURSE ENROLLMENT

Only graduates who have successfully passed the entrance exam can be enrolled in the MBC course. Registration will open 5 working days after the interview, according to the terms and conditions indicated at http://www.unimi.it/en/study/bachelor-and-master-study/degree-programme-enrolment/enrolment-masters-programme or https://www.unimi.it/en/study/bachelor-and-master-study/degree-programme-enrolment/enrolment-masters-programme/open-admission-master-programmes

Students from the Università degli Studi di Milano that have acquired extra-numerary CFU during their LT course by passing MBC exams, can ask for those credit to be recognised among the 120 CFU required for MBC graduation. Students from other Universities, upon graduation, must present certification of the awarded degree at the Segreteria Studenti.

N° posti riservati a studenti extracomunitari non soggiornanti in Italia

25

1° ANNO DI CORSO Attività formative obbligatorie

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<th>Erogazione</th>
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Totale CFU obbligatori 39

2° ANNO DI CORSO Attività formative obbligatorie

<table>
<thead>
<tr>
<th>Erogazione</th>
<th>Attività formativa</th>
<th>Modulo/Unità didattica</th>
<th>Cfu</th>
<th>Settore</th>
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<tbody>
<tr>
<td>annuale</td>
<td>Biomolecular methods laboratory</td>
<td></td>
<td>9</td>
<td>BIO/11, BIO/10, BIO/18</td>
</tr>
<tr>
<td>annuale</td>
<td>Laboratory training</td>
<td></td>
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</table>

Totale CFU obbligatori 21

Altre attività a scelta

The student must choose one of the following three courses:

| 1 semestre | Developmental biology and genetics | | 6 | BIO/18 |
| 1 semestre | Functional genomics | | 6 | BIO/11, BIO/18 |
| 1 semestre | Molecular microbiology and genetics of microorganisms | | 6 | BIO/19, BIO/18 |

The student must choose one of the following three courses:

| 1 semestre | Biomembranes | | 6 | BIO/09 |
| 1 semestre | Molecular pharmacology and immunology | | 6 | MED/04, BIO/14 |
| 2 semestre | Stem cells and genetic diseases | | 6 | BIO/14 |

The student must choose one of the following three courses:

| 1 semestre | Synthetic biology | | 6 | BIO/11, BIO/10, BIO/19, BIO/18, BIO/04 |
| 2 semestre | Methods in biochemical investigation | | 6 | BIO/10 |
| 2 semestre | Signal transduction | | 6 | BIO/10, BIO/04 |

The student must acquire 12 CFU by selecting any of the courses offered by the University of Milan, provided that they are coherent with MBC topics and that the course content does not overlap with those present in mandatory and guided-choice courses. Obviously, as open choice courses, the student can pick the remaining guided-choice courses that he/she had not inserted in the study plan. If unavailable in English, open-choice courses can be taken in Italian provided that the student is fluent in Italian language.
PROPEDEUTICA'

There are no propaedeutic courses in the MBC program that limit progression from the first to the second year.

RICONOSCIMENTI E VECCHI ORDINAMENTI

Riconoscimenti crediti già acquisiti

CFU ACQUIRED IN OTHER MASTER’S
Students requesting a transfer from another Master Degree program to MBC, will undergo the audit of an ad hoc committee that will decide if and how many of the CFU previously acquired by the student can be validated upon admittance to MBC. In addition, the Teaching Board can decide to test the background knowledge of the candidate by interview, or to request additional exams.

CFU ACQUIRED DURING PROFESSIONAL EXPERIENCES
A maximum of 9 (supernumerary) CFU can be acquired (according to art. 5, comma 7, del DM 270/2004) by certified professional experiences and by post-secondary level educational activities performed in association with the University, only after approval by the course coordinator.