UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2022/23
IN
MOLECULAR BIOLOGY OF THE CELL (Class LM-6)
Enrolled from academic year 2015/2016

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<td><strong>Head of Study Programme</strong></td>
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responsible for the MBC Master’s Degree course.

General and specific learning objectives
The MBC course covers all principal areas of the LM-6 Biology course, with a unique focus on biomolecular subjects that distinguishes it from other courses of the same LM Class. The main goal of the MBC course is to train biologists in advanced biomolecular research, to address present and future scientific challenges. In-depth and up-to-date knowledge will be provided for the following subjects: molecular analysis of the genome; 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 well-equipped to enter further, postgraduate-level education programmes.

Expected learning outcomes
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.

APPLYING KNOWLEDGE AND UNDERSTANDING. The student will gain:
- Expertise in carrying out research in the fields of molecular and cell biology, genetics and microbiology and in related research areas, e.g. chemistry, biomedicine and bioinformatics.
- Analytical skills to investigate complex bio-molecular systems using state-of-the-art techniques and instrumentation.
- Competences in experimentally-derived data analysis and interpretation.
- Learning up-to-date methodologies for biological analysis and data processing; the development of interpretative models will be assessed throughout the Master’s thesis.
- Training and awareness of bio-safety aspects and the appropriate procedures for chemical waste management, and knowledge of related laws and regulations.

DECISION-MAKING. The student will acquire skills in:
- Critical evaluation of research data, e.g. data interpretation and identification of the appropriate logical approach and methodological strategies to gain further experimental and theoretical knowledge during research development.
- Experimental planning, including time management and the application of appropriate scientific methods to different biomolecular problems.
- Development of innovative research strategies.
- Critical analysis of scientific literature and data.
- Awareness of ethical aspects of scientific research and responsibility

COMMUNICATION SKILLS. The student will gain experience in:
- Scientific dissemination and the ability to adopt an appropriate use of scientific English, in order to communicate with both specialist and non-specialist audiences.

LEARNING SKILLS. The student will:
- Receive adequate training to become autonomous in his/her scientific thinking, planning and professional development, and he/she will acquire competences in the independent management of his/her research projects and related team working skills.
- Build strong foundations in order to understand the continuous technological advances in general or specialist areas of molecular and cellular biology.

All above-mentioned skills will be gained through attending lectures, independent study, and through an experimental internship that will lead to the preparation of the final dissertation. The achievement of course-specific educational goals will be assessed:
- by regular written and/or oral exams
- during the experimental thesis, assessed by continuous discussion of research progress/results with the scientific team and tutor.
- by the thesis committee who will assess overall presentation skills and the ability to proficiently write and discuss his/her work in proper scientific terms.

Professional profile and employment opportunities
The MBC graduate will acquire specialized and in-depth knowledge in molecular and cellular biology, and consolidated competences in the application of state-of-the-art analytical methodologies and experimental techniques to address a variety of biological challenges. This highly specific, yet multidisciplinary, profile will offer MBC graduates professional employment opportunities in both the public and private sectors, operating in biology-related fields. In particular, MBC will provide the necessary training to allow graduate employment in the following sectors:
- basic and applied academic research, in universities and other public/private research centers;
- environmental management /protection sectors;
- biomedical, agro-bio and pharmaceutical industries, and related professional sectors;
- promotion and development of innovative scientific technologies;
- biotechnological research and development in the healthcare, pharmaceutical and food industries
- editorial, intellectual property and scientific dissemination sectors;
- project management in the biotech industry;
- Biology teaching in adherence to Italian laws;

The fact that MBC is carried out entirely in English, will allow graduates to engage with public/professional sectors in both a national and international setting.

MBC graduates may be legally admitted to the 'A Section' of the National Biologists Register. Furthermore, graduates will be fully qualified to apply for entry to national/international Ph.D. courses and other postgraduate specializations. Indicatively, the different employment sectors accessible to Master graduates, with reference to the intellectual, scientific and highly-specialized professions are here-listed:

- Biologists and related professionals
- Researchers and technicians graduated in the area of biological sciences (after passing the competitive exam).

Pre-requisites for admission

QUALIFICATIONS AND KNOWLEDGE REQUIRED FOR ADMISSION
The admission to the MBC course is subjected to curricular requirements and a demonstrated background knowledge in suitable disciplines related to the course (DM 270/04). Admission is open to:

- Graduates in Biological Sciences (Class L-13) from any Italian University that follows CBUI rules, as adequately certified. In this case, credits (CFU or ECTS) acquired by the candidate as an undergraduate will be fully recognized and will meet the curricular prerequisites. The CBUI guidelines describe the compulsory SSD (scientific areas) and the related recommended number of CFUs (min-max): 66-96 CFUs in biological subjects (BIO/01, BIO/02, BIO/04, BIO/05, BIO/06, BIO/07, BIO/09, BIO/10, BIO/11, BIO/18, BIO/19); 12-15 CFUs in chemistry-based subjects (CHIM/01, CHIM/02, CHIM/03, CHIM/06); 15-18 CFUs in mathematics/physics and computer science subjects (MAT/01-09, FIS/01-08 e INF/01).
- Biological Sciences (Class L-13) graduates from Universities that do not follow CBUI guidelines, Biological Sciences (Class L-12) ex DM509/99, or any other class that meet suitable curricular requirements, including graduates from foreign Universities that possess a title equivalent to the 1st level degree in Italian law. Curricular requirements are the acquisition of a minimum of 93 CFUs distributed in equivalent scientific areas (SSD), as described above, for Biological Sciences (Class L-13) that are in line with the criteria set by CBUI.

Students lacking adequate curricular requirements should contact the Coordinator of the Master's course well in advance, to plan the acquisition of the requested CFUs prior to the application deadline. Any lacking CFU can be acquired by passing the relevant exams and thus acquiring the credits at the University of Milan or any other University. Only students who possess the prerequisites will be invited to the interview.

ADMISSION ASSESSMENT
The admission exam will consist of a formal interview (that can be arranged online) with an Evaluation Committee that will verify the candidate's background knowledge in Biology. A Syllabus will be made available to students prior to their interview for a self-assessment of their level of knowledge.

For all students, knowledge of the English language must be at least B1 level ("lower intermediate") according to the Common European Framework of Reference (CEFR) for Languages or equivalent certification. The proficiency in scientific English will be verified by the committee during the interview.

KNOWLEDGE ASSESSMENT
The prerequisite to enter the MBC Master's Degree program is an adequate knowledge of the fundaments of biological disciplines as certified by the possession of the required CFUs as described in paragraph "Qualifications and knowledge required for admission". Knowledge will be verified by: 1) evaluation of the bachelor study program and 2) an interview with the Admission Committee, composed of teaching members appointed by the Academic Board. The interview will evaluate the expertise of the candidate in topics related to the MBC degree, and will ascertain proficiency in the English language.

The committee will evaluate the candidate on a 100-point scale and award:
- 25/100 points for the graduation grade;
- 10/100 points for the curriculum vitae (degrees with higher number of CFUs in biology related disciplines will obtain more points; the same applies to the presence of extra elective courses, Erasmus experience, others,...)
- 65/100 for interview performance

The minimum requirement for admission is 60/100 and an adequate English proficiency level (equivalent to B1 level).

For the academic Year 2022-2023 applicant interviews will be held face-to-face (unless restrictions will be imposed by Covid-19 pandemic), for those who submit their application by the deadline (see below, "Application and enrolment information and procedures"), on the following days:
- 16th September 2022 at 14.30, for graduated students;
- 7th November 2022 at 14.30 for students that graduate in September and October;
- 9th January 2023, at 14.30, for students that graduate in December. Students must bring official proof of their identity (identity card or passport).
Upon graduation, students not from University of Milan, must present certification of their awarded degree to the Administrative Office or email via https://informastudenti.unimi.it

Foreign students who are not resident in Italy and who possess a foreign bachelor's degree title, will be invited to an online interview in the following days:
- April 29th 2022
- May 27th 2022
- June 24th 2022
- July 22nd 2022
Foreign students who reside in Italy are classed as Italian citizens and must undergo the same evaluation. Check for updates on interview dates and times on the website: https://mbc.cdl.unimi.it

Programme structure
The MBC Master’s has a duration of two years, each year is subdivided into two semesters.
120 educational credits (CFU) are required for Master completion. 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 internship.

The curriculum includes mandatory, guided-and elective courses. Subject choices are made as follows:
- 7 mandatory courses (45 CFUs in total);
- 3 guided-choice courses on principal subjects (18 CFUs in total);
- 2 elective 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, elective courses may be taken in Italian if the student is proficient in the Italian language.

During 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.
The second year will center around the experimental research activities related to the thesis consisting of 12 CFUs of initial laboratory training and 30 CFUs related to the final thesis exam.

Study plan definition and submission for approval
The study plan should be coherent with all proposed MBC courses and in line with the experimental thesis topic. The study plan must be submitted online in the 1st Year, via the web address https://mbc.cdl.unimi.it/en/study/study-plan-submission, within the deadline set by the Student Administrative Office. Approval of the study plan by the Academic Board (Collegio Didattico Dipartimentale, CDD) is mandatory. To favour the correct planning of educational activities, students are encouraged to discuss their study plan with the tutors during the first year and/or contact the Academic Service Office, at the DBS (2nd Floor, Tower A).
Study plans including courses that differ from those suggested in the Programme Description (Manifesto degli Studi) must receive prior positive evaluation by the Study Plan Committee (Commissione Piani di Studio) and must be approved by the Academic Board. Only courses that account for the requested CFU are acceptable. Students taking elective courses not offered by MBC Master are requested to submit a study plan by email to the Study Plan Advisor (monica.beltrame@unimi.it) for approval by the end of January of the first year.

Admission to graduation 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 graduation.

Lecture timetable
The first Semester starts on 26th September 2022 and ends on 20th January 2023.
The second Semester starts on 1st March 2023 and ends on 16th June 2023.
The complete course timetable will be posted at the following address http://mbc.cdl.unimi.it/en/study/course-timetable.

Testing and assessment procedures
University credits will be earned through exams and assessment of lectures, laboratories and thesis dissertation. Course grades are calculated on a 30-point scale, with grade/mark 18 being the minimum to pass and obtain course credits. Assessment will consist of oral or written exams as clearly stated in the syllabus of each course. For courses structured into modules, a head lecturer will be identified as the coordinator, and evaluation procedures, 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 UNIMIA -exams registration online service (available at http://mbc.cdl.unimi.it/en/study/exams). For each course, at least 7 sessions
Exams are scheduled, during January-February, June-July, September.

Procedures for exam registration and admittance
Exam registration is compulsory and must be carried out through the UNIMIA - exams registration online service (available at http://mbc.cdl.unimi.it/en/study/exams) in order to allow CFUs to be automatically accredited to the student’s personal record.
Students may only sit exams during course breaks, when teaching activities are suspended.

Conscientious objection policy
During the MBC Master, the use of animals for teaching purposes is forbidden, according to 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, to whom 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 their participation in any animal experimentation. In this case, the Teaching Board will suggest alternative traineeships, that are consistent with the educational goals of MBC, to ensure the correct acquisition of the study credits necessary to graduate.

Campus
Classrooms are located in the University buildings in: Via Celoria, 26 (Biology buildings); Via Celoria, 20 (Teaching Sector); Via Golgi, 19. Most laboratories are located in the Department of Biosciences, Via Celoria 26, 20133 Milano.

Libraries
The Biology, Chemistry, Physics and IT library is located in Via Celoria, 18, Milano. See: http://www.sba.unimi.it/en/libraries/13453.html

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

Core / compulsory activities
All above-mentioned training activities, including mandatory, guided and elective courses, and research thesis activities, are compulsory for completing the MBC Master’s.

Language test / computer literacy test
In order to obtain their degree, students must be proficient in English at a B2 level. This proficiency level may be certified as follows:
- Through a language certification, earned within three years prior to the date of submission, at a B2 level or higher. For the list of language certifications recognised by the University, please review: https://www.unimi.it/en/node/297/. The certificate must be uploaded during the enrolment procedure, or subsequently to the portal http://studente.unimi.it/uploadCertificazioniLingue;
- Through a Placement Test, which is delivered by the University Language Centre (SLAM) during year I only, from October to January. Students who fail the test will be required to take a SLAM course.
The Placement Test is mandatory for all students who do not hold a valid certificate.
Those who do not sit the Placement Test by January, or who fail to pass the end-of-course test within six attempts, must obtain an outside paid certification by graduation.

English level assessed through a computer-based test during a Bachelor's degrees obtained at the University of Milan. English level B2 or higher 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.

Compulsory attendance
Course attendance is strongly recommended.

Internship criteria

THE THESIS
The Master’s thesis is composed of a dissertation (written in English) and reports the research activities performed by the student during the 2nd year thesis in a research laboratory, under the guidance of a supervisor (Relatore) and a co-tutor (Correlatore). The thesis describes original data generated on a given research subject, adherent to the principal disciplines of MBC. The thesis period lasts about one solar year and normally starts at the beginning of the second year. In the first part of this period (about 2-3 months) the students will become acquainted with the methodologies and investigation techniques that are mandatory to properly collect research data. During this period the students will carry out practical hands on activities under the constant supervision of a trained senior researcher. At the end of this period upon positive written approval by the MBC coordinator and supervisor of the thesis project the student may start his/her research project in an autonomous manner.
Compilation theses are not permitted. Master theses may be internal or external. Internal theses are carried out at the DBS or in other Departments of the University, in which MBC and DBS teaching staff are based.
External experimental theses may be carried out in other public or private Institutions with adequate facilities. Authorization to perform an external thesis is given by the Academic Board, after careful evaluation of the proposed thesis subject and of
the quality of the proponent laboratory. To apply for an external thesis, the student must follow the rules indicated at https://mbc.cdl.unimi.it/en/study/stage-and-internship. The application must be submitted well in advance, as it requires the approval of the MBC Coordinator. The Supervisor of an external thesis must be a member of the DBS and of the Academic Board.

HOW TO SELECT AND APPLY FOR A THESIS POSITION
In February of the first year and October of the second year, students will be informed of the research areas offered in potential host laboratories, the starting dates and the number of internships available are posted on the website (http://tesi.bioscienze.unimi.it). Informative open days are held in the second semester of the first year to present the research interests of the DBS groups and application modalities. Teaching members will communicate place acceptance to students and the MBC coordinator, by a set deadline. The thesis officially starts upon submission of the appropriate form to the Student information office (via Celoria, 26–2nd floor, tower A).

The MBC Coordinator will ensure that every student is assigned a placement. 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 will decide if the student may present his/her thesis in the final exam. The thesis must state on the front page where the internship has been carried out (https://mbc.cdl.unimi.it/en/study/stage-and-internship).

ADMITTANCE TO GRADUATION EXAM
The student is admitted to the graduation exam upon certified completion of:
1) the requested mandatory, guided-choice, and elective courses and acquisition of the required number of CFUs, including 3 CFUs relating to English B2 level certification and 12 CFUs of laboratory training;
2) the final thesis.

Degree programme final exam
The MBC Master will be obtained by passing a final assessment, which is based on evaluation of the thesis dissertation and an oral presentation (both in English) that describes the research project performed by the student. Following the oral presentation, carried out in front of the thesis committee and a public audience, the student will be questioned by the thesis committee on scientific aspects related to the presented work. The committee will evaluate the presentation skills of the student and the ability to respond to the questions posed by the thesis committee, together with the student’s overall performance throughout the two-year Master’s, before awarding a grade, calculated on a 110- point scale. The awarded degree title is a Master’s Degree in Molecular Biology of the Cell.

EXPERIENCE OF STUDY ABROAD AS PART OF THE DEGREE PROGRAM
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 the 27 EU member 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.

Study and internships abroad
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 (Norway, Denmark, Netherlands), France, Germany, Ireland, Poland and Iberian Peninsula (see http://eng.dbs.unimi.it/ecm/home/erasmus/ outgoing-students/biological-sciences; https://bioscienzebio.unimi.it/mobilita/biological-sciences-out.php). 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 CFUs; 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 Erasmus+ program study plan, must be coherent with the MBC course content and must be evaluated and approved by the Academic Board. If necessary, the Academic Board may request the student to integrate the program of exams taken abroad. In accordance with the rules established by the Academic Senate, following completion of the Erasmus+ program, approved exams will be registered, possibly with the original denomination, as part of the student’s curriculum, upon the conversion of the European Credit Transfer and Accumulation System (ECTS) into CFUs. If the student performs the experimental thesis work abroad, he/she must follow the rules outlined above (see Internship criteria and Rules for the thesis and final exam).
The Erasmus and international mobility advisors for Biological area are prof. M. Cristina Bonza (cristina.bonza@unimi.it) and prof. David Horner (david.horner@unimi.it).

How to participate in Erasmus mobility programs
The students of the University of Milan can participate in mobility programmes, through a public selection procedure. Ad hoc commissions will evaluate:
- Academic career
- 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 for Erasmus+ mobility for study generally begins around February each year with the publication of a call for applications specifying destinations and requirements. Regarding the Erasmus+ Mobility for Traineeship, the University of Milan usually publishes two calls a year enabling students to choose a destination defined by an inter-institutional agreement or to find a traineeship position on their own.

The University organizes informative meetings to illustrate mobility opportunities and rules for participation.

Erasmus+ scholarship
The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which may be 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 Language Centre (SLAM).
https://www.unimi.it/en/node/8/
Learn more at: https://www.unimi.it/en/node/274/

For assistance, please contact:
International Mobility Office
Via Santa Sofia 9 (second floor)
Tel. 02 503 13501-12589-13495-13502
Contacts: InformaStudenti; mobility.out@unimi.it
Student Desk booking through InformaStudenti

ADMISSION CRITERIA: 1ST YEAR OPEN, SUBJECT TO ENTRY REQUIREMENTS

Application and enrolment information and procedures
Both Italian and foreign students must submit admission applications by the deadlines indicated in the "student area" of the University web portal (https://www.unimi.it/en/node/92/). Those students who have already graduated before the application deadline (26th August 2022) must matriculate by 30th September 2022 Students who will graduate between 27th August and 31st December 2022 must matriculate by the 16th January 2023. The application form must be completed and electronically submitted to the above mentioned address.

Practical instructions
MBC COURSE ENROLLMENT
Only graduates who have successfully passed the entrance interview may enroll in the MBC course.
Registration will open 5 working days after the interview, according to the terms and conditions indicated at https://www.unimi.it/en/node/92/
Students from the Università degli Studi di Milano that have acquired extra CFUs during their bachelor’s degree by passing MBC exams, may request that such credits count towards the 120 CFUs required for MBC graduation.

N° of places reserved to non-EU students resident abroad
25

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<tr>
<th>1st COURSE YEAR Core/compulsory courses/activities</th>
<th>Module/teaching unit</th>
<th>Ects</th>
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<tr>
<td>Scheduling</td>
<td>Learning activity</td>
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<tr>
<td>1 semester</td>
<td>English proficiency B2 (3 ECTS)</td>
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<td>ND</td>
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<tr>
<td>1 semester</td>
<td>Advanced molecular biology</td>
<td>6</td>
<td>BIO/11</td>
</tr>
<tr>
<td>1 semester</td>
<td>Molecular bioinformatics</td>
<td>6</td>
<td>INF/01</td>
</tr>
<tr>
<td>1 semester</td>
<td>Organic chemistry applied to biology</td>
<td>6</td>
<td>CHIM/06</td>
</tr>
<tr>
<td>2 semester</td>
<td>Molecular genetics</td>
<td>6</td>
<td>BIO/18</td>
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<tr>
<td>2 semester</td>
<td>Protein biochemistry</td>
<td>6</td>
<td>BIO/10</td>
</tr>
<tr>
<td>2 semester</td>
<td>Structural biology of the cell</td>
<td>6</td>
<td>BIO/06, BIO/01</td>
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Total number of compulsory credits/ects 39
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<th>Module/teaching unit</th>
<th>Ects</th>
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<tr>
<td>year</td>
<td>Biomolecular methods laboratory</td>
<td></td>
<td>9</td>
<td>BIO/11, BIO/10, BIO/18</td>
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<tr>
<td>year</td>
<td>Laboratory training</td>
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<td>12</td>
<td>NA</td>
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Total number of compulsory credits/ects 21

### Further elective courses

The student must choose one of the following three courses:

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

The student must choose one of the following three courses:

1 semester  Biomembranes  6  MED/09
1 semester  Molecular pharmacology and immunology  6  BIO/14
2 semester  Stem cells and genetic diseases  6  BIO/14

The student must choose one of the following three courses:

1 semester  Synthetic biology  6  BIO/11, BIO/10, BIO/19, BIO/18, BIO/04
2 semester  Methods in biochemical investigation  6  BIO/10
2 semester  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.

### End of course requirements

<table>
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<th>Final dissertation</th>
<th>30</th>
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Total number of compulsory credits/ects 30

### COURSE PROGRESSION REQUIREMENTS

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

### VALIDATION OF ECTS ACQUIRED IN OTHER/PREVIOUS DEGREE PROGRAMMES/ THROUGH PROFESSIONAL EXPERIENCE

Validations of previously acquired ects

CFU ACQUIRED IN OTHER MASTER’S

Students requesting a transfer from another Master’s programme to MBC, will be subject to audit by an ad hoc committee that will decide if and how many of the CFUs previously acquired by the student may be deemed valid upon admittance to MBC. In addition, the Academic Board retains the right to assess the background knowledge of the candidate by interview, or may request partial integration of pertinent exams.

CFUs ACQUIRED DURING PROFESSIONAL WORK EXPERIENCE

A maximum of 9 (extracurricular) CFUs may be acquired (according to art. 5, comma 7, del DM 270/2004) by certified professional work experience and by post-secondary level educational activities performed in association with the University, upon approval by the MBC coordinator.