

# **MASTER OF SCIENCE PROGRAMS**

## **RULES AND REGULATIONS**

**2023 - 2024**

Issued with RD (Rectoral Decree) no. 99, 12.10.2023

**In compliance with**

**MD (Ministerial Decree) no. 270, 22 October 2004; MD 16 March 2007 and  
Bocconi University Academic Regulations (Rectoral Decree no. 152, 23 December 2015)**

## **Art. 1 Scope of present Rules and Regulations**

The following Rules and Regulations (under art. 4 of the Bocconi University's Academic Regulations) are applicable to Master of Science Programs of “Università Commerciale Luigi Bocconi” (hereafter the “University”).

MSc Programs referring to fields of study LM-16, LM-18, LM-56, LM-62, LM-76, LM-77, LM-82 and LM-91 (Ministerial Decree 16 March 2007) are offered by the Bocconi Graduate School and have been accredited in compliance with current legislation.

### **Art.1 bis Concurrent enrollment in two university programs**

Concurrent enrollment in two university programs is allowed according to what is provided for by law<sup>1</sup>, by ministerial guidelines and by the specific rules adopted by Bocconi within its self-government limits to meet its educational purposes (specific rules are published on the website).

## **Art. 2 Field of study: definition**

Second cycle (graduate) university programs sharing common qualifying goals and common fundamentals in study plans belong to the same field of study (16 March 2007 MD).

Degrees included in the same field of study are officially and legally equivalent.

## **Art. 3 Field of study and Bocconi Master of Science Programs**

The MSc programs currently offered by the University, with indication of their respective fields of study and of the main teaching language used, are as follows:

### **LM-16- Finance**

Finanza-Finance (Italian-English)

### **LM-18 – Computer Science**

Artificial Intelligence (English)

### **LM-56-Economics**

Economic and Social Sciences (English)

Economics and Management of Innovation and Technology (English)

### **LM-62-Political Science**

Politics and Policy Analysis (English)

### **LM-76 – Environmental and cultural economics**

Transformative Sustainability (English), joint program in partnership with Politecnico di Milano (student mobility; administrative center: Università Bocconi).

### **LM-77-Management**

Amministrazione, finanza aziendale e controllo – Accounting, Financial Management and Control (Italian-English)

Economia e legislazione per l'impresa (Italian)

Economics and Management in Arts, Culture, Media and Entertainment (English)

Economics and Management of Government and International Organizations (English)

International Management (English)

Management (Italian-English)

Marketing Management (Italian-English)

### **LM-82- Statistics**

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<sup>1</sup> L. n.33 del 12/04/22; D.M. n.930 del 29/07/22 e D.M. n.933 del 02/08/22.

Data Science and Business Analytics (English)

**LM-91**

**Methods and techniques for the information society**

Cyber risk strategy and governance (English), joint program in partnership with Politecnico di Milano (student mobility; administrative center: Università Bocconi).

For each program the following details are listed and registered in the official Italian University Offer Databank (Banca Dati Ministeriale dell'Offerta Formativa):

- specific qualifying goals and study plan macro structure
- expected learning outcomes based on the “Dublin Descriptors” (knowledge, skills and competences)
- career opportunities
- program requirements
- final work
- admission requirements.

**Art. 4 Program requirements**

Program requirements refer to all “academic activities” required by the study plan and aimed to train students of Master of Science programs.

Academic activities include:

- ✓ courses, “tutored in-depth studies” related to courses (if any) and other teaching activities such as seminars and workshops,
- ✓ EU foreign languages (one or two depending on the MSc program),
- ✓ curricular supplementary activities (to be chosen among those offered each year) to foster a wide-ranging culture; such activities are included in the standard 120 CPU study plan of programs belonging to specific fields of study),
- ✓ internships and similar professional training activities,
- ✓ thesis.

Academic activities requiring teaching include, in different proportions, face-to-face and – potentially – on-line lectures, self-study and tutorials.

Moreover, academic activities requiring teaching can be compulsory or to be selected from specific lists (that can have a varying degree of broadness) in order to allow the personalization of the study plan.

Study plans of the MSc programs include academic activities for a total of 120 CPUs, which are required for the degree conferral.

Academic activities have been specifically designed to meet the specific qualifying goals of the field of study, in compliance with art. 12, par. 2 of MD no. 270, 22 October 2004.

CPUs are awarded and registered in the academic transcript upon assessment of students' preparation. Assessment methods vary according to the academic activity type.

Moreover, the University plans and offers other extra-curricular activities which cannot be included in the study plan and are not awarded CPUs.

Students can be allowed to replace academic activities offered by the University with academic activities held in other Italian or foreign Universities or other equivalent reputable Institutions (after the full recognition procedure has successfully completed).

The study plan of students attending a Master of Science program taught in Italian must include at least one course (compulsory and/or elective) taught in English.

The rule does not apply to students whose study period abroad (Exchange, AEEP, Double Degree, CEMS, free mover semester) was recognized in foreign Universities where English language competence is not required for application / admission.

Recognition applies to:

- Exchange and Free mover semester programs: at least one recognized exam passed abroad
- AEEP, CEMS, DD: fulfillment of all requirements of the program.

Also, this rule does not apply to incoming double degree students enrolled in a program taught in Italian whose second year electives are all in Italian, as required by the Program Director.

Details about program requirements of all Bocconi MSC programs are listed in the Attachment; for each academic activity the following details are given:

- typology (characterizing, integrative, job placement etc.) as per art. 10 DM 270/2004
- for characterizing and integrative activities: academic field (economics, management, law, etc.) and disciplinary field (econometrics, organization, private law, etc.)
- CPU value;
- scheduling (1st or 2nd year of the program).

For each academic activity, specific goals and learning outcomes are set in the Annual Academic Planning.

#### **Art. 5 Selection for specific academic opportunities**

The University may offer specific academic opportunities related to the study plan (e.g. spending a period of study abroad). Applying students are selected according to the procedures set in the Annual Academic Planning.

#### **Art. 6 Online learning activities**

The teaching method of MSc programs is “conventional” (according to accreditation rules). Online learning activities can be offered to support or replace traditional lecturing or other instructor-centered learning activities within the limits set by national law.

#### **Art. 7 Admission to MSc Programs**

The University carries out the selection procedure before the start of the academic activities of the academic year.

A standard or specific procedure can be adopted every year for selecting MSc program applicants, according to their fields of study and their academic background (students from Bocconi University, from other Italian universities or foreign universities).

Detailed admission procedures are laid down in the annual Academic Planning and published on Bocconi website approximately one year before the beginning of the teaching activities.

Admission is subject to:

- the fulfillment of curricular requirements (undergraduate degree)
- the fulfillment of entry language requirements (English /Italian depending on the program)

- adequate personal preparation for graduate studies, which results in a ranking position within the target number of places made available for each program

1. Curricular requirements:

undergraduate degree (Italian degree or non-Italian degree recognized by the Admission Committee).

- Italian degrees:

- undergraduate degrees referring to fields of study L -18, L-33, L-36 (as per MD 270/04) to be admitted to MSc programs referring to fields of study LM-16, LM-56, LM-77, LM-72 and LM-62. Candidates holding an Italian Bachelor Degree in other fields of studies may apply as long as they fulfill the following requirements:

**Curricular Requirements of MSc programs belonging to LM-16, LM-56 e LM-77** for students who do not have an Italian first level degree belonging to L-18, L-33 L-36:

At least 24 CPU in any of the following disciplinary areas:

- Economic and Statistic disciplines:
  - SECS-P, from SECS-P/01 to SECS-P/12 and
  - SECS-S, from SECS-S/01 to SECS-S/06.
- Math and Computer Science disciplines:
  - from MAT/01 to MAT/09;
  - INF/01
- Physics Disciplines:
  - FIS/02;
- Industrial and Computer Science Engineering Disciplines:
  - ING-INF/04-05-06, ING-IND/35
- Law Disciplines:
  - IUS 01-04-05-06-07-08-09-10-12-13-14

**Curricular Requirements of MSc program belonging to LM-62** for students who do not have an Italian first level degree belonging to L-18, L-33 L-36

At least 24 CPU in any of the following disciplinary areas:

- Social and Political Science Disciplines:
    - SPS, from SPS/01 to SPS/14
  - Economic and Statistic disciplines:
    - SECS-P, from SECS-P/01 to SECS-P/12 and
    - SECS-S, from SECS-S/01 to SECS-S/06,
  - Law Disciplines:
    - IUS, from IUS/01 to IUS/21
- undergraduate degrees referring to fields of study L -18, L-33, L-41 (as per MD 270/04) to be admitted to the MSc program referring to field of study LM-82. Candidates holding an Italian Bachelor Degree in other fields of studies may apply as long as they fulfill the requirements listed below.
  - undergraduate degrees referring to fields of study L-8, L-9, L-18, L-31, L-33 (as per MD 270/04) to be admitted to the MSc program referring to field of study LM-91. Candidates holding an Italian Bachelor Degree in other fields of studies may apply as long as they fulfill the requirements listed below.

**Curricular Requirements of MSc program belonging to LM-82** for students who do not have an Italian first level degree belonging to L-18, L-33 e L-41 and **Curricular**

**Requirements of MSc program belonging to LM-91** for students who do not have an Italian first level degree belonging to L-8, L-9, L-18, L-31, L-33:

At least 30 CPU in any of the following disciplinary areas:

- Economic and Statistic disciplines:
    - SECS-P, from SECS-P/01 to SECS-P/12 and
    - SECS-S, from SECS-S/01 to SECS-S/06,
  - Math and Computer Science disciplines:
    - MAT, from MAT/01 to MAT/09
    - INF/01
  - Physics Disciplines:
    - FIS/02
  - Industrial and Computer Science Engineering Disciplines:
    - ING-INF/04-05-06, ING-IND-35
- undergraduate degrees referring to fields of study L-7, L-8, L-9, L-18, L-33 (as per MD 270/04) to be admitted to the MSc program referring to field of study LM-76. Candidates holding an Italian Bachelor Degree in other fields of study may apply as long as they fulfill the requirements listed below.

**Curricular Requirements of MSc program belonging to LM-76 (Economic studies for environment and culture)** for students who do not have an Italian first level degree belonging to L-7, L-8, L-9, L-18 and L-33

At least 30 CPUs in any of the following disciplinary areas:

- Economic and Statistic disciplines:
    - SECS-P, from SECS-P/01 to SECS-P/13 and
    - SECS-S, from SECS-S/01 to SECS-S/06,
  - Math and Computer Science disciplines:
    - MAT, from MAT/01 to MAT/09
    - INF/01
  - Physics disciplines:
    - FIS/01-02-03-07
  - Chemistry disciplines:
    - from CHIM/01 to CHIM/07, CHIM/12
  - Industrial and Computer Science Engineering Disciplines:
    - from ING-INF/04 to ING-INF/06, ING-IND/17, from ING-IND/22 to ING-IND/27, ING-IND/35
  - Civil Engineering and Architecture  
ICAR/03-13-17-20-21
- undergraduate degrees referring to fields of study L-8, L-30, L-31, L-35 (as per MD 270/04) to be admitted to the MSc program referring to field of study LM-18. Candidates holding an Italian Bachelor Degree in other fields of study may apply as long as they fulfill the requirements listed below.

**Curricular Requirements of MSc program belonging to LM-18 (Computer Science)** for students who do not have an Italian first level degree belonging to L-8, L-30, L-31 o L-35:

At least 30 CPUs in any of the following disciplinary areas:

- Statistics disciplines:
    - SECS-S: da SECS-S/01 a SECS-S/06
  - Math and Computer Science disciplines:
    - MAT: da MAT/01 a MAT/09
    - INF: INF/01
  - Physics disciplines:
    - FIS: da FIS/01 a FIS/07
  - Computer Science Engineering Disciplines:
    - ING-INF: da ING-INF/01 a ING-INF/07
- non-Italian degree: these degrees are considered valid upon assessment of duration, CPU, field of study. At any rate, students must hold a Bachelor Diploma (1st cycle qualification) suitable and valid for admission to a 2nd cycle of studies in the country of issue.

Not only CPUs gained in BSc programs (lauree) can be recognized to fulfill curricular requirements, but also CPUs gained in MSc programs (lauree magistrali), specialized master programs (master universitari) and single courses (“corsi singoli”).

CPU gained in programs belonging to first cycle university programs cannot be considered as a part of the 120 CPU required to obtain a graduate degree (Master of Science degree).

The undergraduate degree must be awarded by the deadlines stated in the Annual Academic Planning.

2. English / Italian language proficiency:

- Master of Science programs taught in English: at least B2 level (CEFR) in English
- Master of Science programs taught in Italian: at least B2 level (CEFR) in Italian and B1 level (CEFR) in English

Language requirements can be certified by:

- Undergraduate degree or high school diploma referring to programs fully taught in English /Italian or
- other documentary evidence,  
recognized by the University in the Annual Academic Planning and published online every year (together with details about minimum scores required)

3. Furthermore, the University carefully evaluates whether applicants have adequate competences, skills and potential to successfully attend a Master of Science Program. The above are verified by assessing:

- For all applicants: undergraduate academic performance – GPA, CPU, other curricular activities (internship, international study experience) number of years to obtain the undergraduate degree
- Moreover, for non–Bocconi applicants: performance in an admission test: international test – GMAT/GRE or Bocconi test assessing basic students’ preparation in the most relevant disciplines (mathematics; statistics; microeconomics; macroeconomics; accounting, planning & control; finance; organization; management, marketing; private law; public law, business law) as well as the mastering of critical thinking and logical skills).

In order to guarantee a careful assessment of applications, further elements can be considered such as CV, motivation letter, video presentation or other documents.

Students are admitted upon verification of curricular requirements (undergraduate degree), language proficiency (English / Italian), individual competences, potential and skills, as well as according to the available slots.

Students are admitted on the basis of their ranking position within the target number of places made available for the chosen program (selected as first or subsequent option).

Despite admitted students have no pending credit points to be gained, the University offers preparatory courses (optional and without exam); attendance is recommended depending on the student's undergraduate degree. Moreover, text books and other materials are suggested to give the opportunity for further individual readings.

The University provides English-learning tools (available to all students) and Italian-learning tools (available to non-native Italian-speaking students) for those wishing to improve their knowledge and entry skills.

The University's Graduate School offers pre-experience MSc programs for applicants with little or no work experience.

Bocconi MSc programs require active participation: as the learning model aims to be interactive, academic activities (lectures, tutorials, team works, etc.) involve constant student - instructor and student – students mutual exchange of ideas, thus adding value to education and training.

This clarifies why applicants who are about to regularly complete their undergraduate studies and students who graduated not more than two years before are preferred over other applicants that obtained their degree in previous years.

#### **Art. 8 Agreements with partner Universities or other qualified Institutions**

In case of agreements with partner Universities or other qualified institutions, different prerequisites and methods for evaluating knowledge /skills /potential for success can be set. The selection procedure can be carried out:

- jointly, by the institutions with *ad hoc* Admission Committees
- by one institution appointed with the approval of all the partners involved in the agreement and on the basis of a common selection procedure

#### **Art. 9 Admission of students enrolled on other Universities' Master of Science programs**

Students applying for a place in a Bocconi Master of Science program who enrolled on a Master of Science program in other Italian or foreign Universities and did not graduate can be admitted to the first year of the two-year Master of Science programs provided that they pass the selection procedure as per art. 7.

Admitted students can ask for the recognition of the corresponding exams sat in the other University. A maximum of 30 CPUs (out of 120) gained in the other Master of Science program can be recognized.

*Ad hoc* rules can apply in case of agreement with partner Universities or other Institutions.

#### **Art. 10 Admission of graduates from Bocconi Master of Science programs**

Bocconi MSc graduates are admitted irrespective of the number of places available for a program. The year of admission, the exams and credits which can be recognized are decided by the Program Director.



### **Art. 11 Admission of graduates from Other Universities' MSc programs**

MSc graduates from other universities are selected as per art. 7 and are admitted to the first year of a Master of Science program. A maximum of 30 CPUs (out of 120) gained in the other Master of Science program can be recognized.

*Ad hoc* rules can apply in case of agreement with partner Universities or other institutions.

### **Art. 12 Admission of Specialized Master (1-year program) graduates**

Specialized Master graduates from other Universities are selected as per art 7 and are admitted to the first year of a Master of Science program; the credits gained in the previous program cannot be recognized.

Bocconi Specialized Master graduates are selected as per art 8 and are admitted to the first year of a Master of Science program. A maximum of two courses (no more than 16 CPUs) gained in the previous program can be recognized.

### **Art. 13 Competence**

Decisions about applications are made by the MSc Program Director, on behalf of the Study Program Committee, in compliance with the present Rules and Regulations.

The MSc Program Director, in cooperation with the specially appointed Admission Committee, ascertains whether the applicant's degree fulfills the pre-requisites for admission to a MSc program (as per art. 8).

*Ad hoc* rules can apply in case of agreement with partner Universities or other institutions.

### **Art. 14 Enrollment on the second Year**

Students can enroll on the second year of a Master of Science program irrespective of the number of credits gained in the first year.

They may enroll either in the second year or as first-year repeating students ("ripetente" or "fuori corso intermedio"). A student who does not complete his or her studies by the second year of a program, will enroll as a "fuori corso" student (student enrolled beyond regular completion time); however students can also enroll as repeating students.

### **Art. 15 Changing MSc program and changing of language (English to Italian or vice versa)**

Changing MSc Program and changing language (from English to Italian or vice versa within the same MSc program) are not allowed during the first year.

Students can apply for a change when enrolling on the second year.

A change of program implies enrolment in the first year of the new MSc program.

Eligibility for the new MSc program shall depend on whether the curriculum requirements related to the undergraduate degree are met (i.e. the degree falls under some predefined ministerial fields of studies; if not, the applicant meets the predefined minimum number of credits from predefined disciplinary area as per art. 7).

Changing the language within the same program is only allowed under special circumstances.

Students are required to produce a written statement, and admission depends on the students' motivation, the fulfillment of language requirements, the students' academic curriculum and the forecast about the number of new first year students. The MSc Program Director (upon approval of the Dean of the Graduate School) decides admissions and the year of admission.

In case of change from a program in Italian to a different program in English, one of the language pre-requisites recognized for enrolling on a Master of Science in English must be met.

In case of change from a program in English to a program in Italian, one of the language pre-requisites recognized for enrolling on a Master of Science in Italian must be met.

The following caps have been set: 3 students for each class group of each MSc program.

Applications are evaluated by the MSc Program Director, who carries out a global assessment of the student's curriculum. When applications exceed the caps, students are ranked (one ranking list for each program) on the basis of their GPA and the credit point units (CPUs) earned.

#### **Art. 16 Expiration**

The obsolescence assessment of the student's academic curriculum is carried out by the Program Director eight academic years after the end of the standard duration of a MSc program. Calculations are made starting from the first enrollment in a MSc program in the university system; periods of temporary interruption allowed according to Italian D.P.C.M. (Ministerial Decree) 09/04/2001 do not account for expiration.

If the academic curriculum is positively assessed, a new deadline for the completion of the program will be given, usually corresponding to the standard duration of the program.

#### **Art. 17 "Characterizing" and "integrative" academic activities**

"Characterizing" and "integrative" academic activities identify each MSc program.

Characterizing activities include courses (that can be organized into modules); integrative activities include courses/modules and – for some programs – workshops.

Workshops' teaching activities are particularly focused on the development of applied knowledge and competences that are strictly related to the distinguishing disciplines of the program.

Characterizing and integrative activities can be set or be chosen among a selection offered by the University.

Assessment methods for courses are specified in art. 25.

#### **Art. 18 "Elective" academic activities**

A part of the study plan CPUs refers to elective activities (typically, courses or tutored in-depth studies focused on specific topics).

Students customize their own study plan by choosing elective courses among courses offered by Bocconi and by other Universities, in compliance with the procedures set in the Annual Academic Planning.

Under special circumstances, the study plan may also include courses offered in PhD programs, in compliance with what stated in the Annual Academic Planning.

"Tutored in-depth studies" entail an individual research project on a specific topic agreed with the director of the related course.

Elective courses may be organized in "tracks", so that students can choose a specific track to focus on a particular topic. Tracks and their respective elective courses are specified in the Annual Academic Planning.

Assessment methods are specified in art. 25.

## **Art. 19 Seminars**

Study plans may include credit-bearing seminars.

Seminars are classified as “professional training activities” and are designed to develop students’ soft skills or favor the acquaintance with different business environments.

Seminars include highly interactive class activities supervised by the instructor who may as well invite guest speakers; in addition, students are given individual / group assignments.

Assessment methods are specified in art. 25.

## **Art. 21 Foreign languages**

Study plans of all Master of Science programs, except the ones belonging to LM- 18, LM-76, LM-82 and LM-91, require two European Union languages.

The LM-18, LM-76, LM-82 and LM-91 study plans require one language whose rules coincide with those of the second language of other Master of Science programs.

In detail:

**1st language:** English compulsory

for all students (regardless of their native language)

for all MSc Programs (English/Italian) except the LM-82 program.

The main aim is to foster professional skills.

**2nd language, for LM-16, LM-56, LM-62, LM 77 MSc Programs and single language for LM-76, LM-82 and LM-91 program:**

*MSc programs in English:*

- Italian, for non-Italian native speakers;
- Other EU language among those recognized by the University (Annual Academic Planning), for Italian native speakers

*MSc programs in Italian:*

- EU language (Italian excluded) among those recognized by the University (Annual Academic Planning) for all students.

The foreign language competence to be achieved is stated in the Annual Academic Planning and is based on Common European Framework of Reference (CEFR) levels.

Students will gain the credits related to foreign languages after being awarded an international certificate (among those recognized by the University) or after passing the Bocconi test (for English) / exam (for other languages).

Credits can be gained by producing an international certificate awarded before enrolling, provided that the certificate is still valid.

The fulfillment of the English language requirement results in a “pass” in the students’ academic transcript; other EU language requirements result in a mark out of 30 (included in GPA).

The list of valid international certificates, the conversion criteria of grades not expressed out of 30 and obsolescence rules are stated in the Annual Academic Planning.

*Ad hoc* rules can apply in case of agreement with partner Universities or other institutions.

## **Art 21 Supplementary curricular activities**

Study plan may include credit – bearing supplementary curricular activities.

Supplementary curricular activities are classified as “professional training activities” and are designed to foster a wide-ranging culture to develop critical thinking and to delve into cutting-edge topics.

The basket of activities to be offered is defined year by year (Annual Academic Planning).

Seminars on *ad hoc* topics, study tours, training courses on software tools, courses on non- EU languages are examples of such activities.

Students are given a pass or fail grade as the result of attendance requirements and test activities (assessment methods vary depending on the type of activity).

### **Art. 22 Internships and similar professional training activities**

Part of the CPUs of the study plan are related to professional training activities (compulsory activities) such as internships or similar professional training activities.

Internship or similar professional training activities (qualified working experiences and field projects) are governed by specific regulations and deliberated annually in the Academic Planning.

A “pass” is required for the awarding of CPUs.

### **Art. 23 Thesis**

In order to obtain a Master of Science degree students are required to write a thesis and defend it before a specially appointed Board.

The thesis shapes the student's educational experience in a significant way. It is the result of an original work carried out under the supervision of the thesis advisor on a topic linked to the main subject area of the graduating student's curriculum.

The thesis must demonstrate the student's command of the basic methodologies of the subject areas he/she has studied and must include an in-depth analysis of a specific topic.

The thesis can be written in Italian or in English (MSc program students enrolled in English programs must write and defend the thesis in English).

The thesis can be:

- A research work (Research Thesis) aimed at producing scientific knowledge or methodologies, or aimed at analyzing and finding a solution to a given problem. This type of thesis must include an analysis of the literature, defining the research problem, defining the methodology used and results obtained;
- An analytical/descriptive work (Thesis) which can be developed in different ways (such as: business plan; case study; etc.). This type of thesis must include a review of the literature referring to the topic.

Appropriate tools can be used by the University to detect plagiarism.

Assessment methods for theses are specified in art. 27.

### **Art. 24 Class attendance**

Class attendance is strongly recommended for all academic activities.

Course Directors can use different assessment methods to test knowledge and skills of attending and non-attending students.

Course Directors will highlight and describe the different assessment methods (if any) in the course profile and course syllabus and are responsible for checking attendance.

### **Art. 25 Assessment methods**

#### ***Procedures***

Courses and other academic activities requiring teaching (seminars and workshops) call for test activities aimed at assessing students' preparation and at awarding CPU as a result.

Courses can be divided into modules, in which case CPU are recorded in the academic curriculum after all modules have been successfully completed (in any case, all modules shall be considered when preparing any rankings, including those for admission to study abroad).

Testing takes place during the exam periods stated in the annual Academic Planning. At least one exam period is planned at the end of each semester.

Assessment methods must be designed so that the student's personal output can be discerned and must guarantee third party check.

When the same academic activity is held in different class groups, examinations take place following the same procedures in all involved class group.

Students' preparation is assessed through in progress testing (available to attending students only) or final assessment only (available to non-attending students, but open to attending students as well).

Assessment methods for each academic activity are described both in the activity profile (published on the website) and in the syllabus (detailed session-by-session syllabus).

In-progress testing is carried out in different moments and, possibly, more than one assessment method, such as (depending on the course and with different weight duly described in the syllabus) partial written exams, oral exams, assessment of active class participation, individual / group assignments (these assignments may result in a written output only or in an oral presentation).

General exam can be either written and/or oral.

As far as partial and general exams are concerned:

During an exam, a student can decide to leave the room ("withdraw"), in which case the exam is not valid and the student is registered as absent.

In a written exam, the student will hand in the exam paper and write "withdrawn" on it, at any time within the limit set by the faculty member.

A student who has handed in his or her exam paper without writing "withdrawn" must accept the result (mark or pass/fail) he or she will be given.

In an oral exam, the student can withdraw at any time before the examiner has officially announced the result.

The Director of the activity decides whether to release or not previous exams' questions and answers.

### **Grading**

Courses are given marks expressed out of 30, resulting from the assessment of the different elements that contribute to the evaluation of students' preparation (general or partial exams, active class participation, individual and/or group assignments). The course syllabus clearly states how the final mark is determined.

Marks are recorded in the students' academic curricula. A mark from 0 to 17/30 is a fail and the student must retake the exam.

A mark from 18 to 30/30 is a pass, and CPU are awarded. A Board of Examiners can decide to assign a 30 "cum laude" mark.

Students are not allowed to repeat an exam they have passed.

The mark – weighted on the basis of the course CPU – is included in the GPA.

For tutored in-depth studies a written paper is required; it is given a mark which is included in the GPA.

For seminars and workshops students are given a pass or fail grade as the result of the assessment of their preparation through in progress testing (available to attending students only) or final assessment only (available to non-attending students, but open to attending students as well).

Seminars' final grades are not included in the GPA.

## **Art. 26 Other details about testing: Chronological order of exams, Additional academic activities, GPA, personal data**

### ***Chronological order of exams***

A chronological order of exams may be set (and enforced) in the Annual Academic Planning and published on the website (University Guide).

When enforced, the observance of the chronological order is checked at the end of each exam period and the exam is annulled in case of violation of the rule.

If no chronological order is set, it is advisable to observe the order (year, semester) stated in the program requirements.

### ***Additional curricular activities***

Additional curricular activities can be included in the personal study plan.

CPUs are assigned on top of 120 standard CPUs.

In detail, additional curricular activities can be selected among:

- elective courses, foreign languages, tutored in-depth activities on specific topics (for some programs only; two in-depths activities correspond to one elective course) and Higher Level Courses (PhD courses offered to students enrolled in specific Master of Science program listed in the Annual Academic Planning).  
Such additional curricular activities can be added to the study plan only after first-year CPUs have all been gained (maximum 3 additional activities);
- Supplementary curricular activities as defined in art 21; such activities can be added to the study plan in any year (maximum 2 activities).

Additional curricular activities which are given marks out of 30 will be used to calculate a student's GPA. If they are more than two, the two best marks will be used and, if the marks are the same, the activity giving the most credits will be used.

### ***Calculating GPA***

The grade point average (GPA) is the weighted arithmetic mean of all marks expressed out of 30. The weights assigned to marks are the courses' CPUs.

The mark 30 "cum laude" counts as 31/30.

When exams passed in other universities (by Bocconi outgoing students or by other universities incoming students) are recognized and included in a Bocconi study plan, the "original" mark is recorded in the students' transcripts. Marks which are not expressed out of 30 will be converted according to specific conversion tables.

### ***Personal data***

Academic transcripts can be accessed in compliance with Italian Law 241/90, as well as in compliance with European Regulation (679/2016) and any other in force law and regulation about privacy.

### ***More on personal data***

Students who wish to apply for university programs or to enter the labor market can ask Bocconi University to disclose their marks and other non-sensitive personal data, also to private parties, online and abroad. Data will be treated confidentially and will only be used for the purposes specified. The University can process students' personal data and make them available to other legal entities (the Association of Bocconi University Graduates "Associazione Laureati Università Bocconi"; the Egea bookshop; the Javotte Bocconi Institute - "Istituto Javotte Bocconi"; "ISU Bocconi") in order to pursue its institutional ends (in relationship with Bocconi institutional activities) and fulfill legal obligations. Data can be processed for research and statistical purposes, in order to give scholarships and other financial aid, issue students' ID cards, send Bocconi newsletters and journals, send information and promote Bocconi fundraising campaigns.

Detailed information about Personal Data Processing is published on Bocconi University website. Further information can be retrieved by mail from the University Data Protection ([dpo@unibocconi.it](mailto:dpo@unibocconi.it)).

### **Art. 27 Thesis: Defense**

In order to submit the thesis to the Graduation Board, a student must have earned all the credits required in the program, excluding the credits assigned to the thesis. Students can defend their theses in Italian or English; students who attended a Master of Science program taught in English must write and defend their theses in English.

### **Art. 28 Thesis: Assessment**

The final grade is expressed out of 110.

The graduation grade is calculated as follows:

- grade point average (GPA): weighted arithmetic mean of all marks expressed out of 30 (weights are the courses' CPU converted into a mark out of 110,

plus:

- For Research Thesis: from 0 to 8 points (out of 110) for thesis quality and thesis oral defense;
- For Analytical/descriptive thesis: from 0 to 5 points (out of 110) for thesis quality and thesis oral defense;
- 1 point (out of 110) for graduation within the first two sessions (July and October); only for students enrolled in the second year of studies as regular students in corso).

In any case, the total maximum number of points for the research thesis and completion of studies within the first two sessions cannot be more than 8 points.

Students pass the final exam if they obtain a grade of at least 66.

The Board can unanimously award "lode" (cum laude) to students who satisfy the following conditions:

- graduation grade of at least 111
- they were not given a disciplinary sanction of more than 6 months suspension.

With reference to the quality of thesis and defense:

- the contents of the thesis are evaluated on clarity and accuracy of the written work, as well as the student's ability to summarize. The points awarded are based on the complexity of the topics covered, thoroughness and depth of analysis, literature cited, methodology applied and the quality and accuracy of empirical analysis. Originality and level of innovation are also important factors. In addition, the adequacy of the conclusions reached is also assessed.
- The presentation is evaluated on the ability to express oneself clearly, plan and organize a well-structured presentation, apply critical reasoning and analytical skills, and respond appropriately to the questions and issues raised by the Board.

### **Art. 29 Recognition of exams and other academic activities abroad**

Without prejudice to double/joint degree agreements with foreign universities, exams (except those classified *ex ante* as "not-recognizable" in the Annual Academic Planning) passed in other universities can be "recognized" ("*in toto*" or in part, if some integration is required).

The following conditions must be observed:

- Exams of courses with a corresponding Bocconi course must be previously recognized by the Course Director; exams of courses without a corresponding Bocconi courses must be previously

authorized by the Program Director or his/her delegate and they can be authorized under special circumstances only;

- A maximum of 30 credits can be recognized.

Curricular foreign languages can be recognized as well: international certifications can be recognized on condition that they are included in the list defined in the Annual Academic Planning; moreover, exams sat in a foreign University can be recognized (upon approval by the language coordinator of the Bocconi Language Centre).

CPUs referring to foreign languages are included in the maximum number of 30 CPUs allowed for exchange programs.

Finally, internships and other similar professional training activities can be recognized as per the procedure outlined in art 22.

### **Art. 30 Code of conduct**

All students must fulfill all the requirements deriving from their study plan and are expected to conduct themselves in a manner that does not bring the University into disrepute. They must observe the rules laid down by Bocconi University on academic activities, exam procedures, and final paper preparation; they must behave in a respectful manner towards others so that they do not feel that they are discriminated or harassed; they must respect the University buildings, spaces and facilities.

Audio recording of teaching activities by students is allowed only in case of explicit consent by the instructor.

The University only may shoot video recording of educational activities, and only for specific educational or promotional activities.

Teaching materials (including video recording of teaching activities) are the exclusive property of Bocconi University. Students are allowed to use them only for the teaching and learning purposes connected to the Program and exclusively within the context of the educational activities related to the Program itself. Teaching materials cannot be reproduced, disseminated, published, transferred to third parties, in whole or in part, by any tools or methods, for any reason, outside the purposes and context indicated above. In the event of violation of these restrictions, Bocconi University reserves the right to take action against the student in order to protect its rights.

Inappropriate behavior and serious offences interfering with the University functioning or causing damage to the University activities or image must be sanctioned, and further sanctions can be imposed by law.

Students must comply with the rules of conduct adopted by the University, including rules regarding exams.

Further details on the code of conduct are included in the Honor Code and the Code of conduct for Students which are published on the website.

### **Art. 31 Cooperation agreements with other Universities or higher education Institutions**

National and international cooperation agreements between Bocconi University and Universities or other higher education Institutions aim to:

- offer an *ad hoc* program characterized by one single study plan (jointly designed by all the partners) which results in a multiple or joint degree;



- offer programs characterized by two study plans (one for each partner) that overlap in part and that result in a multiple (double) degree.

A memorandum of understanding (MoU) is needed to finalize the agreement of cooperation. The memorandum must be signed by a legal representative of Bocconi University, as stated by the competent bodies, and by the other legal party, and must be signed by deadlines which allow the agreement to have legal effect starting from the academic year agreed upon.

An MoU shall include the following elements:

- characteristics of the Institutions as parts of their countries' higher education systems
- the level of the program for which the MoU is undertaken, that must be the same/equivalent in the higher education systems involved;
- for a Joint program (involving all the students enrolled): the name of the program, the typology of the qualification awarded by Bocconi University, the typology of qualification in the context of the university education system of the partner University, the study plan with agreed upon distribution of activities between Universities;
- for a Double program (usually involving only a part of the students enrolled): the name of the programs (Bocconi and partner University), the typology of the qualification awarded by Bocconi University, the typology of the qualification awarded in the context of the university education system of the partner University, the integrated curriculum made up by the academic activities of both programs;
- admission criteria and procedures;
- procedures concerning the administrative management of students and the payment of tuition fees;
- modalities concerning the awarding of the degree;
- duration of the MoU and conditions for its renewal.

Cooperation agreements, names of partner Institutions and resulting degrees for Master of Science Programs are specified in the Annual Academic Planning.

MoUs can include *ad hoc* rules regarding selection procedures and also state *ad hoc* requirements for the study plans.

### **Art. 32 Fees and funding**

Tuition fees for each MSc program are defined yearly by the University Board. Tuition fees are due in their entirety from the moment of enrollment.

Enrollment entails the payment of tuition fees for the whole academic year within the official payment deadlines, by the modalities defined by the Fees, Funding and Housing Office.

Delay or failure in the payment of the tuition fees prevents the student from carrying out administrative and/or educational acts/activities within the University, and from making use of the services offered to students.

All the details, including payment deadlines, withdrawal procedure and request of transfer from/to another university, are published every year in the specific section of the University website (Fees).

Bocconi University implements a policy, aimed at supporting the most motivated and brilliant students, by activating a system of assistance, that is based upon merit and financial conditions.

The overall amount of the assistance can vary from year to year, also upon the basis of the opportunities offered from the Bocconi University donors, and is published well in advance in the specific section of the University website (Funding).

### **Art. 33 Annual Academic Planning**

The competent University bodies, the Academic Council, the Faculty Council, the School Council monitor the effectiveness of the University's Rules and Regulations, supplement and amend them when deemed appropriate, and disclose any amendments thereto.

The Annual Academic Planning includes resolutions on various issues, among others:

1. proposals to the University Board about admission procedures and the number of places available (target number);
2. programs to be offered;
3. academic calendars;
4. structure and organization of educational activities;
5. assessment of educational activities and students' performance.

In exceptional and unforeseen circumstances (e.g. a health emergency), the School Deans may decide on matters concerning Annual Academic Planning, except for points 1 and 2 above, subject to notification to or ratification by the competent University body.

These resolutions are valid for the academic year when they are adopted and for the subsequent academic years, unless they are supplemented and/or amended.

### **Art. 34 Information for students**

Relevant information about:

- these Rules and Regulations;
- General University Rules and University Academic Regulations

is included and clarified in the "Guide to the University", which is published each year before the beginning of the academic year.

Students are required to be acquainted with the Guide contents.

### **Art. 35 Formal approval of Rules and Regulations and Transitional Rules**

These Rules and Regulations, formally approved by the Graduate School Council in compliance with the procedures established in the Statute, are issued by Rectoral Decree and come into force on the date stated in the Rectoral Decree itself.

*This document is issued in English and in Italian Language, for any doubts, questions of interpretation, conflicts of any kind the Italian version shall prevail.*

**Attachment A - GRADUATE SCHOOL Rules and Regulations**

**Master of Science Program Structures - Cohort 2023-2024**

## Attachment A1: Master of Science in Management

Educational activities by year, credits awarded and related disciplinary fields.

### MANAGEMENT - curriculum "Management"

EDUCATIONAL ACTIVITIES	CPU	Department	Disciplinary fields	Typology and Academic field (ministerial code)		
<b>1st year</b>						
<i>1st semester</i>						
20486	FONDAMENTI DI BUSINESS ANALYTICS METODI QUANTITATIVI PER IL MANAGEMENT	PRINCIPLES OF BUSINESS ANALYTICS	6	DEC 3 SECS-S/06 3 SECS-S/01	B sm B sm	
20132	SCENARI ECONOMICI	ECONOMIC PROSPECTS	6	SPS	SECS-P/06	B ec
20479	PERFORMANCE MEASUREMENT AND CORPORATE STRATEGY I (PERFORMANCE MEASUREMENT)	PERFORMANCE MEASUREMENT AND CORPORATE STRATEGY I (PERFORMANCE MEASUREMENT)	8	ACC	SECS-P/07	B az
20162	GESTIONE DELLE RISORSE UMANE	HUMAN RESOURCE MANAGEMENT	6	MNT	6 SECS-P/10	C
20216	MARKETING MANAGEMENT - ADVANCED	MARKETING MANAGEMENT - ADVANCED	6	MKT	SECS-P/08	B az
20159	SEMINARI PER LO SVILUPPO DI ABILITA' COMPORTAMENTALI	BEHAVIOURAL SKILLS SEMINARS	2	MNT	SECS-P/10	F
			<b>34</b>			
<i>2nd semester</i>						
20480	PERFORMANCE MEASUREMENT AND CORPORATE STRATEGY II (CORPORATE STRATEGY)	PERFORMANCE MEASUREMENT AND CORPORATE STRATEGY II (CORPORATE STRATEGY)	8	MNT	SECS-P/07	B az
20138	DIRITTO COMMERCIALE (CORSO PROGREDITO)	COMPANY AND BUSINESS LAW (ADVANCED COURSE)	6	IUS	IUS/04	B gi
20898	ENTREPRENEURSHIP, HISTORY AND SOCIETY	ENTREPRENEURSHIP, HISTORY AND SOCIETY	6	SPS	SECS-P/12	B ec
20897	ADVANCED CORPORATE FINANCE FOR MANAGEMENT	ADVANCED CORPORATE FINANCE FOR MANAGEMENT	6	FIN	4SECS-P/09 2 SECS-P/11	C C
20481	BUSINESS GAME/SIMULAZIONE (per Management)	BUSINESS GAME/SIMULAZIONE (for Management)	2	MNT	2 SECS-P/07	F
			<b>28</b>			
<b>1ST YEAR CREDIT POINTS</b>				<b>62</b>		
<b>2nd year</b>						
	1 elective course^		6			B az
	3 elective courseS^		18			D
20637	PROFESSIONAL ENGLISH SEMINARS		2			F
20111	2nd language		4			F
	ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES		2			F
20119	INTERSHIP OR SIMILAR ACTIVITIES		8			F
20112	THESIS		18			E
			<b>58</b>			
<b>2ND YEAR CREDIT POINTS</b>				<b>58</b>		
<b>TOTAL CREDIT POINTS</b>				<b>120</b>		

### MANAGEMENT curriculum "Organizzazione e gestione delle risorse umane"

EDUCATIONAL ACTIVITIES	CPU	Department	Disciplinary fields	Typology and Academic field (ministerial code)		
<b>1st year</b>						
<i>1st semester</i>						
20486	FONDAMENTI DI BUSINESS ANALYTICS	PRINCIPLES OF BUSINESS ANALYTICS	6	DEC 3 SECS-S/06 3 SECS-S/01	B sm B sm	
20132	SCENARI ECONOMICI	ECONOMIC PROSPECTS	6	SPS	SECS-P/06	B ec
20479	PERFORMANCE MEASUREMENT AND CORPORATE STRATEGY I (PERFORMANCE MEASUREMENT)	PERFORMANCE MEASUREMENT AND CORPORATE STRATEGY I (PERFORMANCE MEASUREMENT)	8	ACC	SECS-P/07	B az
20162	GESTIONE DELLE RISORSE UMANE	HUMAN RESOURCE MANAGEMENT	6	MNT	6 SECS-P/10	C
20216	MARKETING MANAGEMENT - ADVANCED	MARKETING MANAGEMENT - ADVANCED	6	MKT	SECS-P/08	B az
20159	SEMINARI PER LO SVILUPPO DI ABILITA' COMPORTAMENTALI	BEHAVIOURAL SKILLS SEMINARS	2	MNT	SECS-P/10	F
			<b>34</b>			
<i>2nd semester</i>						
20480	PERFORMANCE MEASUREMENT AND CORPORATE STRATEGY II (CORPORATE STRATEGY)	PERFORMANCE MEASUREMENT AND CORPORATE STRATEGY II (CORPORATE STRATEGY)	8	MNT	SECS-P/07	B az
20151	DIRITTO DEL LAVORO E DELLE RELAZIONI INDUSTRIALI	LABOUR LAW	6	IUS	IUS/07	B gi
20152	ECONOMIA DEL LAVORO E DELLE RISORSE UMANE	LABOUR AND PERSONNEL ECONOMICS	6	ECO	SECS-P/02	B ec
20158	ORGANIZZAZIONE D'IMPRESA	ORGANIZATION	6	MNT	SECS-P/10	C
20481	BUSINESS GAME/SIMULAZIONE (per Management)	BUSINESS GAME/SIMULAZIONE (for Management)	2	MNT	SECS-P/10	F
			<b>28</b>			
<b>1ST YEAR CREDIT POINTS</b>				<b>62</b>		
<b>2nd year</b>						
	1 elective course^		6			B az
	3 elective courses^		18			D
20637	PROFESSIONAL ENGLISH SEMINARS		2			F
20111	2nd language		4			F
	ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES		2			F
20119	INTERSHIP OR SIMILAR ACTIVITIES		8			F
20112	THESIS		18			E
			<b>58</b>			
<b>2ND YEAR CREDIT POINTS</b>				<b>58</b>		
<b>TOTAL CREDIT POINTS</b>				<b>120</b>		

## Attachment A2: Master of Science in International Management

Educational activities by year, credits awarded and related disciplinary fields.

INTERNATIONAL MANAGEMENT (IM)		Department	Disciplinary fields	Typology and Academic field (ministerial code)
EDUCATIONAL ACTIVITIES	CFU			
<b>1st year</b>				
<i>1st semester</i>				
20486 PRINCIPLES OF BUSINESS ANALYTICS	6	DEC	3 SECS-S/06 3 SECS-S/01	B sm B sm
20156 INTERNATIONAL FINANCE	8	FIN	4 SECS-P/11 4 SECS-P/09	B az B az
20723 MARKETING ANALYTICS	6	MKT	ING-IND/35	C
20161 PERFORMANCE MEASUREMENT	6	ACC	SECS-P/07	B az
	26			
<i>2nd semester</i>				
20215 INTERNATIONAL COMPARATIVE BUSINESS LAW	6	IUS	IUS/04	B gi
20720 GLOBAL SCENARIOS- MODULE 1 (GEOPOLITICS AND BUSINESS)	6	SPS	6 SECS-P/12	B ec
20753 MANAGING ORGANIZATIONS	6	MNT	ING-IND/35	C
20721 GLOBAL SCENARIOS- MODULE 2 (MACROECONOMICS)	6	ECO	SECS-P/01	B ec
20750 GLOBAL STRATEGY	8	MNT	SECS-P/07	B az
20172 SEMINAR ON COLLABORATIVE COMPETENCES	2	MNT	SECS-P/10	F
	34			
1ST YEAR CREDIT POINTS	60			
<b>2nd year</b>				
20575 GLOBAL OPERATIONS AND SUPPLY CHAIN MANAGEMENT	6	MNT	SECS-P/08	B az
3 elective courses	18			D
20637 PROFESSIONAL ENGLISH SEMINARS	2			F
20111 SECOND LANGUAGE	4			F
ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES	2			F
20119 INTERSHIP OR SIMILAR ACTIVITIES	8			F
20112 THESIS	20			E
2ND YEAR CREDIT POINTS	60			
<b>TOTALE CFU</b>	<b>120</b>			

## Attachment A3: Master of Science in Marketing Management

Educational activities by year, credits awarded and related disciplinary fields.

MARKETING MANAGEMENT (MM)			Department	Disciplinary fields	Typology and Academic field (ministerial code)
EDUCATIONAL ACTIVITIES		CPU			
<b>1st year</b>					
<i>1st semester</i>					
20838	STRATEGIC MARKETING AND ANALYTICS (DATA & ANALYTICS FOR STRATEGIC MARKETING DECISIONS) - MODULE 1	8	MKT	6 SECS-P/08 2 SECS-P/12	B az B ec
20125	CHANNEL MARKETING (EVOLUZIONE DEL COMMERCIO, ANALISI E PROGETTAZIONE)	6	MKT	4 SECS-P/08 2 SECS-P/12	B az B ec
20175	UNDERSTANDING CONSUMER (CONSUMER BEHAVIOUR AND CCT) - MODULE 1	5	MKT	SECS-P/08	B az
20176	UNDERSTANDING CONSUMER (CONSUMER BEHAVIOUR AND CCT) - MODULE 2	5	MKT	5 SECS-P/08	B az
20133	INDUSTRY ANALYSIS (ECONOMIA DEI SETTORI INDUSTRIALI E DELL'INNOVAZIONE)	8	MNT	SECS-P/06	B ec
20159	SEMINARI PER LO SVILUPPO DI ABILITA' COMPORTAMENTALI	2	MNT	SECS-P/10	F
		<b>34</b>			
<i>2nd semester</i>					
20839	STRATEGIC MARKETING AND ANALYTICS (WEB ANALYTICS) - MODULE 2	6	MKT	SECS-P/08	B az
20843	MARKET RESEARCH AND BUSINESS FORECASTING	6	DEC	SECS-S/01	B sm
20895	INNOVATION IN THE DATA ECONOMY	5	MNT	SECS-P/08	B az
20145	BRAND MANAGEMENT	5	MKT	SECS-P/08	B az
20139	DIRITTO PER IL MARKETING	6	IUS	IUS/04	B gi
		<b>28</b>			
<b>1ST YEAR CREDIT POINTS</b>		<b>62</b>			
<b>2nd year</b>					
	2 elective courses^	12			C
	2 elective courses^	12			D
20637	PROFESSIONAL ENGLISH SEMINARS	2			F
20111	2nd language	4			F
	ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES	2			F
20119	INTERSHIP OR SIMILAR ACTIVITIES	8			F
20112	THESIS	18			E
<b>2ND YEAR CREDIT POINTS</b>		<b>58</b>			
<b>TOTAL CREDIT POINTS</b>		<b>120</b>			

**Attachment A4: Corso di laurea Magistrale in Amministrazione, finanza aziendale e controllo – Master of science in Accounting Financial management and Control**

(the Italian denomination will be used in the transcripts of students who attend classes taught in Italian and the English denomination will be used for students attending classes taught in English)

Educational activities by year, credits awarded and related disciplinary fields.

**AMMINISTRAZIONE, FINANZA AZIENDALE E CONTROLLO - ACCOUNTING, FINANCIAL MANAGEMENT AND CONTROL (AFC)**

EDUCATIONAL ACTIVITIES	CPU	Department	Disciplinary fields	Typology and Academic field (ministerial code)
<b>1st year</b>				
<i>1st semester</i>				
20179 ANALISI DEI DATI	6	DEC	4 SECS-S/01 2 SECS-S/06	B sm B sm
20126 BILANCIO E COMUNICAZIONE ECONOMICA	10	ACC	SECS-P/07	B az
20198 FINANZA AZIENDALE E DEI MERCATI	10	FIN	5 SECS-P/09 5 SECS-P/11	B az B az
20123 SISTEMI DI CORPORATE GOVERNANCE	6	MNT	SECS-P/12	B ec
20159 SEMINARI PER LO SVILUPPO DI ABILITA' COMPORTAMENTALI	2	MNT	SECS-P/10	F
	34			
<i>2nd semester</i>				
20177 FAIR VALUE ACCOUNTING, REPORTING AND VALUATION	8	ACC	SECS-P/09	B az
20503 SCENARI MACROECONOMICI	6	ECO	SECS-P/01	B ec
20178 MODELLI E SISTEMI DI PIANIFICAZIONE E CONTROLLO	10	ACC	SECS-P/07	B az
20641 DIRITTO DELL'IMPRESA (TEMI SOCIETARI E TRIBUTARI DI AMMINISTRAZIONE E CONTROLLO)	6	IUS	3 IUS/04 3 IUS/12	B gi B gi
	30			
1ST YEAR CREDIT POINTS	64			
<b>2nd year</b>				
2 elective courses^	12			C
2 elective courses^	12			D
20637 PROFESSIONAL ENGLISH SEMINARS	2			F
20111 2nd language	4			F
ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES	2			F
20119 INTERSHIP OR SIMILAR ACTIVITIES	6			F
20112 THESIS	18			E
2ND YEAR CREDIT POINTS	56			
<b>TOTAL CREDIT POINTS</b>	<b>120</b>			

**Attachment A5: Master of Science in Economics and Management of Government and International Organizations**

Educational activities by year, credits awarded and related disciplinary fields.

**ECONOMICS AND MANAGEMENT OF GOVERNMENT AND INTERNATIONAL ORGANIZATIONS (GIO)**

EDUCATIONAL ACTIVITIES	CPU	Department	Disciplinary fields	Typology and Academic field (ministerial code)
<b>1st year</b>				
<i>1st semester</i>				
20508 GOVERNMENT AND INTERNATIONAL ORGANIZATIONS: TRENDS AND CAREERS	3	SPS	SECS-P/07	F
20571 STRATEGIC AND HR MANAGEMENT IN PUBLIC ORGANIZATIONS	9	SPS	SECS-P/07	B az
20517 QUANTITATIVE METHODS FOR SOCIAL SCIENCES	6	DEC	6 SECS-S/01	B sm
20510 NATIONAL AND INTERNATIONAL INSTITUTIONS LAW	6	IUS	IUS/14	B gi
20511 POLITICS AND POLICY-MAKING	6	SPS	SPS/04	C
	<u>30</u>			
<i>2nd semester</i>				
20512 ECONOMICS AND POLICY OF GLOBAL MARKETS	9	SPS	6 SECS-P/02 3 SECS-P/12	B ec B ec
20513 POLICY ANALYSIS AND EVALUATION	8	SPS	SECS P/06	B ec
20514 PUBLIC ACCOUNTING AND PERFORMANCE MANAGEMENT	9	SPS	SECS-P/07	B az
1 compulsory course to be chosen among:				
20515 MANAGING BUSINESS GOVERNMENT RELATIONS (major b, major c, major d o piano libero)	6	SPS	SECS-P/07	B az
20516 MANAGEMENT OF INTERNATIONAL ORGANIZATIONS AND NGOS (major a, major c, major d o piano libero)				
	<u>32</u>			
<b>1ST YEAR CREDIT POINTS</b>	<b>62</b>			
<b>2nd year</b>				
2 elective courses^	12			C
2 elective courses^	12			D
20637 PROFESSIONAL ENGLISH SEMINARS	2			F
20111 2nd language	4			F
ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES	2			F
20119 INTERSHIP OR SIMILAR ACTIVITIES	8			F
20112 THESIS	18			E
<b>2ND YEAR CREDIT POINTS</b>	<b>58</b>			
<b>TOTAL CREDIT POINTS</b>	<b>120</b>			



## Attachment A6: Piano di studi del Corso di laurea Magistrale in Finanza – Master of Science in Finance

(the Italian denomination will be used in the transcripts of students who attend classes taught in Italian and the English denomination will be used for students attending classes taught in English)

Educational activities by year, credits awarded and related disciplinary fields.

FINANZA - FINANCE (FIN)				Department	Disciplinary fields	Typology and Academic field (ministerial code)
EDUCATIONAL ACTIVITIES			CPU			
<b>1st year</b>						
<i>1st semester</i>						
20214	FINANCIAL REPORTING AND ANALYSIS	FINANCIAL REPORTING AND ANALYSIS	6	ACC	SECS-P/07	C
20127	FINANZA AZIENDALE (INTRODUZIONE ALLE VALUTAZIONI)	CORPORATE FINANCE (BUSINESS VALUATION)	6	FIN	SECS-P/09	B az
20188	QUANTITATIVE FINANCE AND DERIVATIVES - MODULE 1	QUANTITATIVE FINANCE AND DERIVATIVES - MODULE 1	6	FIN	SECS-S/06	B msi
20191	FINANCIAL ECONOMETRICS AND EMPIRICAL FINANCE - MODULE 1	FINANCIAL ECONOMETRICS AND EMPIRICAL FINANCE - MODULE 1	6	FIN	SECS-S/06	B msi
20135	TEORIA DELLA FINANZA	THEORY OF FINANCE	6	FIN	SECS-P/01	B ec
20159	SEMINARI PER LO SVILUPPO DI ABILITA' COMPORTAMENTALI	BEHAVIOURAL SKILLS SEMINARS	2	MNT	SECS-P/10	F
			<u>32</u>			
<i>2nd semester</i>						
20189	QUANTITATIVE FINANCE AND DERIVATIVES - MODULE 2	QUANTITATIVE FINANCE AND DERIVATIVES - MODULE 2	6	FIN	3 SECS-P/11 3 SECS-S/06	B az B msi
20193	DIRITTO DEGLI INTERMEDIARI E DEI MERCATI FINANZIARI	FINANCIAL INSTITUTIONS AND MARKETS LAW	6	IUS	IUS/05	B gj
20192	FINANCIAL ECONOMETRICS AND EMPIRICAL FINANCE - MODULE 2	FINANCIAL ECONOMETRICS AND EMPIRICAL FINANCE - MODULE 2	6	FIN	SECS-P/01	B ec
20163	GESTIONE DEI RISCHI E VALORE NELLE BANCHE E NELLE ASSICURAZIONI	RISK MANAGEMENT AND VALUE IN BANKING AND INSURANCE	6	FIN	3 SECS-P/11 3 SECS-S/06	B az B msi
20131	INVESTMENT BANKING	INVESTMENT BANKING	6	FIN	SECS-P/11	B az
			<u>30</u>			
1ST YEAR CREDIT POINTS			<u>62</u>			
<b>2nd year</b>						
	1 elective course^		6			C
	3 elective courses^		18			D
20637	PROFESSIONAL ENGLISH SEMINARS		2			F
20111	2nd language		4			F
	ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES		2			F
20119	INTERSHIP OR SIMILAR ACTIVITIES		8			F
20112	THESIS		18			E
2ND YEAR CREDIT POINTS			<u>58</u>			
<b>TOTAL CREDIT POINTS</b>			<b>120</b>			

## Attachment A7: Master of Science in Business Administration and Law

Educational activities by year, credits awarded and related disciplinary fields.

BUSINESS ADMINISTRATION AND LAW (CLELI)			Department	Disciplinary fields	Typology and Academic field (ministerial code)
<b>EDUCATIONAL ACTIVITIES</b>	<b>CPU</b>				
<b>1st year</b>					
<i>1st semester</i>					
20212 ANALISI STRATEGICHE E VALUTAZIONI FINANZIARIE	8		MNT	SECS-P/09	B az
20138 DIRITTO COMMERCIALE (CORSO PROGREDITO)	6		IUS	IUS/04	B gi
20130 BILANCIO E OPERAZIONI DI GESTIONE STRAORDINARIA	8		ACC	SECS-P/07	B az
20123 SISTEMI DI CORPORATE GOVERNANCE	8		MNT	6 SECS-P/12 2 SECS-P/07	B ec B az
20159 SEMINARI PER LO SVILUPPO DI ABILITA' COMPORTAMENTALI	2		MNT	SECS-P/10	F
	<b>32</b>				
<i>2nd semester</i>					
20128 PRINCIPI CONTABILI INTERNAZIONALI	8		ACC	SECS-P/07	B az
20164 TASSAZIONE DELLE SOCIETA' E DEI GRUPPI	8		IUS	2 IUS/12 6 SECS-P/03	B gi B ec
20441 MODELLI FINANZIARI PER LA VALUTAZIONE	6		FIN	SECS-S/06	B sm
20129 FINANZA STRATEGICA	8		MNT	SECS-P/09	C
	<b>30</b>				
<b>1ST YEAR CREDIT POINTS</b>	<b>62</b>				
<b>2nd year</b>					
20140 DIRITTO DEI MERCATI E DEGLI STRUMENTI FINANZIARI	6		IUS	IUS/04	B gi
1 elective course^	6				C
2 elective courses^	12				D
20637 PROFESSIONAL ENGLISH SEMINARS	2				F
20111 2nd language	4				F
ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES	2				F
20119 INTERSHIP OR SIMILAR ACTIVITIES	8				F
20112 THESIS	18				E
<b>2ND YEAR CREDIT POINTS</b>	<b>58</b>				
<b>TOTAL CREDIT POINTS</b>	<b>120</b>				

## Attachment A8: Master of Science in Economics and Management in Arts, Culture, Media and Entertainment

Educational activities by year, credits awarded and related disciplinary fields.

### ECONOMICS AND MANAGEMENT IN ARTS, CULTURE, MEDIA AND ENTERTAINMENT (ACME)

EDUCATIONAL ACTIVITIES	CPU	Department	Typology and Academic
<b>1st year</b>			
<i>1st semester</i>			
20445 MANAGEMENT OF CULTURAL INDUSTRIES AND INSTITUTIONS - MODULE I (STRATEGY AND GOVERNANCE)	6	MNT	B az
20447 CULTURAL MEDIATION	6	SPS	B ec
20812 APPLIED RESEARCH IN CULTURAL INDUSTRIES AND INSTITUTIONS – MODULE I (QUANTITATIVE METHODS FOR MANAGEMENT)	6	DEC	B sm
20161 PERFORMANCE MEASUREMENT	6	ACC	B az
20632 EUROPEAN AND INTERNATIONAL ADVANCED IP LAW	6	IUS	B gi
20159 BEHAVIOURAL SKILLS SEMINARS	2	MNT	F
	<b>32</b>		
<i>2nd semester</i>			
20813 APPLIED RESEARCH IN CULTURAL INDUSTRIES AND INSTITUTIONS – MODULE II (MARKETING AND CRM IN THE ARTS)	6	MKT	B az
20507 PROJECT AND TEAM MANAGEMENT	6	MNT	B az
20446 MANAGEMENT OF CULTURAL INDUSTRIES AND INSTITUTIONS - MODULE II (COMPARATIVE CULTURAL PUBLIC POLICIES AND FUNDRAISING)	6	SPS	B ec
20801 Major workshop 1	6		B az
20800 Major workshop 2	6		B az
	<b>30</b>		B ec
<b>1ST YEAR CREDIT POINTS</b>	<b>62</b>		
<b>2nd year</b>			
20814 Major workshop 3	6		C
20815 Major workshop 4	6		C
two elective courses	12		D
20637 PROFESSIONAL ENGLISH SEMINARS	2		F
20111 2nd language	4		F
20623 ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES	2		F
20119 INTERNSHIP OR SIMILAR ACTIVITIES	8		F
20112 THESIS	18		E
<b>2ND YEAR CREDIT POINTS</b>	<b>58</b>		
<b>TOTAL CREDIT POINTS</b>	<b>120</b>		

### MAJOR STRUCTURE COHORT 2022-23

At 1st year, 2nd semester, ACME students choose the major; major's workshop 1 and 2, open only to ACME students, are compulsory

	Major's workshop 1 and 2 (1st year)	Major	CPU	Disciplinary fields	Department
20804	Contemporary Art Markets and Systems (1) Foundations	VISUAL ARTS	6	SECS-P/07	SPS
20805	Contemporary Art Markets and Systems (2) Global Economics		6	4 SECS-P/07 2 SECS-P/12	SPS
20806	Tourism Industry and Sustainable Destinations	TOURISM	6	SECS-P/07	SPS
20807	Digital Innovations in Tourism		6	4 SECS-P/07 2 SECS-P/12	SPS
20810	Publishing, Audiences and Platforms	MEDIA	6	SECS-P/07	MNT
20809	Two-Sided Markets in Entertainment: The Case of Music		6	4 SECS-P/08 2 SECS-P/12	MKT
20808	Live Performances	PERFORMING ARTS AND MEGA EVENT	6	SECS-P/07	SPS
20809	Two-Sided Markets in Entertainment: The Case of Music		6	4 SECS-P/08 2 SECS-P/12	MKT
20844	Design thinking and business innovation	FASHION AND DESIGN	6	SECS-P/07	MNT
20521	Managerial issues in made in Italy industries		6	4 SECS-P/07 2 SECS-P/12	MNT

At 2<sup>nd</sup> year ACME students choose:

- 1 course in a short list (made up of all workshops 3 and 4, open to all MSc students)
- 1 course in a large list (made up of all workshops (1,2,3,4) not already chosen)

	Major's workshops 3 and 4 (2nd year)	Major	CPU	Disciplinary fields	Department
20802	Heritage, Museums and Digital Cultures	VISUAL ARTS	6	SECS-P/07	SPS
20803	Heritage, Museums and Communities Engagement		6	SECS-P/07	SPS
20518	Cities, cultural tourism and urban life	TOURISM	6	3 cfu SECS P/02 3 cfu M-GGR/02	SPS
20475	Event and mega event management and creative industries		6	SECS-P/08	MKT
20476	Television	MEDIA	6	3 cfu SECS-P/07 3 cfu L-ART/06	MNT
20477	Movie industry		6	3 cfu SECS-P/07 3 cfu L-ART/06	MNT
20552	Sports Business and Management	PERFORMING ARTS AND MEGA EVENT	6	SECS-P/10	MNT
20475	Event and mega event management and creative industries		6	SECS-P/08	MKT
20524	Value Chains and Business Models in Fashion and Luxury	FASHION AND DESIGN	6	SECS-P/07	MNT
20671	Luxury Companies in the Global Landscape		6	SECS-P/07	MNT

## **Attachment A9: Master of Science in Economic and Social Sciences**

*(the Italian denominations will be used in the transcripts of students who attend classes taught in Italian and the English denominations will be used for students attending classes taught in English)*

*Educational activities by year, credits awarded and related disciplinary fields.*

### **ECONOMIC AND SOCIAL SCIENCES (ESS)**

<b>EDUCATIONAL ACTIVITIES</b>	<b>CPU</b>	<b>Department</b>	<b>Disciplinary fields</b>	<b>Typology and Academic field (ministerial code)</b>
<b>1st year</b>				
<i>1st semester</i>				
20136 ADVANCED MATHEMATICS FOR ECONOMICS AND SOCIAL SCIENCES	8	DEC	SECS-S/06	B sm
20137 ADVANCED STATISTICS FOR ECONOMICS AND SOCIAL SCIENCES	8	DEC	2 SECS-S/01 6 SECS-S/05	B sm C
20886 FOUNDATIONS OF SOCIAL SCIENCES - MODULE I (EMPIRICAL RESEARCH METHODS AND DATA ANALYSIS)	6	SPS	SECS-P/07	B az
20749 COMPETITION LAW AND PRACTICE	6	IUS	IUS/04	B gi
20159 BEHAVIOURAL SKILLS SEMINARS	2	MNT	SECS-P/10	F
	<u>30</u>			
<i>2nd semester</i>				
20203 ECONOMETRICS	8	ECO	SECS-P/05	B ec
1 compulsory course to be chosen among:	6	SPS	SECS-P/07	B az
20888 FOUNDATIONS OF SOCIAL SCIENCES – MODULE II A (INSTITUTIONS, GOVERNMENT AND SOCIETY)		SPS	SECS-P/07	
20889 FOUNDATIONS OF SOCIAL SCIENCES – MODULE II B (INSTITUTIONS, GOVERNMENT AND SOCIETY)		SPS	SECS-P/07	
3 elective courses*	18	Vari	Vari SSD	B ec
	<u>32</u>			
<b>1ST YEAR CREDIT POINTS</b>	<b>62</b>			
<b>2nd year</b>				
1 elective course*	6	DEC/SPS	Vari SSD	C
3 elective courses*	18			D
20637 PROFESSIONAL ENGLISH SEMINARS	2			F
20111 2nd language	4			F
ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES	2			F
20119 INTERSHIP OR SIMILAR ACTIVITIES	8			F
20112 THESIS	18			E
<b>2ND YEAR CREDIT POINTS</b>	<b>58</b>			
<b>TOTAL CREDIT POINTS</b>	<b>120</b>			

## Attachment A10: Master of Science in Economics and Management of Innovation Technology

Educational activities by year, credits awarded and related disciplinary fields.

### ECONOMIC AND MANAGEMENT OF INNOVATION AND TECHNOLOGY (EMIT)

EDUCATIONAL ACTIVITIES	CPU	Department	Disciplinary fields	Typology and Academic field (ministerial code)
<b>1st year</b>				
<i>1st semester</i>				
20451 FUNDAMENTALS OF INNOVATION AND INDUSTRIAL CHANGE	7	MNT	SECS-P/06	B ec
20143 INTELLECTUAL PROPERTY AND COMPETITION LAW	6	IUS	IUS/04	B gi
20867 BUSINESS ECONOMICS MODULE I (EMPIRICAL METHODS)	7	MNT	SECS-P/06	B ec
20453 VENTURE CAPITAL AND VALUATION	6	FIN	SECS-P/11	B az
20617 TECHNOLOGY AND INNOVATION STRATEGY	6	MNT	SECS-P/08	B az
20159 BEHAVIOURAL SKILLS SEMINARS	2	MNT	SECS-P/10	F
	<b>34</b>			
<i>2nd semester</i>				
20868 BUSINESS ECONOMICS MODULE II (ANALYTIC METHODS)	8	MNT	3 SECS-P/08 5 SECS-P/06	B az B ec
20869 STRATEGIC DECISION MAKING	6	MNT	SECS-P/08	C
20570 DATA ANALYTICS AND VISUALIZATION	8	DEC	SECS-S/01	B sm
1 compulsory course to be chosen among:	6			C
20402 INNOVATION, GROWTH AND SUSTAINABILITY (major a or free track)		MNT	SECS-P/06	
20870 BUILDING AND SCALING A TECH-BASED STARTUP (major b or major d or free track)		MNT	SECS-P/10	
20209 IT CONSULTING (major c or free track)		MNT	SECS-P/10	
	<b>28</b>			
<b>1ST YEAR CREDIT POINTS</b>	<b>62</b>			
<b>2nd year</b>				
3 elective courses^	18			D
1 innovation specific elective*	6		SECS-P/06	B ec
20637 PROFESSIONAL ENGLISH SEMINARS	2			F
20111 2nd language	4			F
ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES	2			F
20119 INTERSHIP OR SIMILAR ACTIVITIES	8			F
20112 THESIS	18			E
<b>2ND YEAR CREDIT POINTS</b>	<b>58</b>			
<b>TOTAL CREDIT POINTS</b>	<b>120</b>			

## Attachment A11: Master of Science in Data Science and Business Analytics

Educational activities by year, credits awarded and related disciplinary fields.

### DATA SCIENCE AND BUSINESS ANALYTICS (DSBA) track Business Analytics

EDUCATIONAL ACTIVITIES	CPU	Department	Disciplinary fields	Typology and Academic field (ministerial code)
<b>1st year</b>				
<i>1st semester</i>				
20591 COMPUTER PROGRAMMING AND DATABASE SYSTEMS	8	DEC	SECS-S/01	B stat
20592 STATISTICS AND PROBABILITY	8	DEC	6 SECS-S/01 2 MAT/ 06	B stat B mat ap
20595 BUSINESS ANALYTICS	8	MNT	SECS-P/08	C
20594 ECONOMETRICS FOR BIG DATA	8	ECO	SECS-P/05	B stat ap
<i>2nd semester</i>				
20159 BEHAVIORAL SKILLS SEMINAR	2	MNT	SECS-P/10	F
20593 INNOVATION AND MARKETING ANALYTICS	6	MKT/MNT	SECS-P/08	C
20596 MACHINE LEARNING	8	DEC	SECS-S/01	B stat
20597 NATURAL LANGUAGE PROCESSING	6	MKT	ING-INF/05	C
20599 SIMULATION AND MODELING	8	PAM	SECS-S/04	B stat ap
	<u>30</u>			
1ST YEAR CREDIT POINTS	62			
<b>2nd year</b>				
<i>1st semester</i>				
20601 DIGITAL PRIVACY SEMINAR	2	IUS	IUS/08	F
20598 FINANCE WITH BIG DATA	8	FIN	SECS-S/06	B mat ap
20600 DEEP LEARNING FOR COMPUTER VISION	6	MKT	2 SECS-P/10 4 SECS-P/08	C C
20110 FOREIGN LANGUAGE	4			F
<i>2nd semester</i>				
20112 THESIS	18			E
<i>any semester</i>				
2 elective courses	12			D
20119 INTERSHIP OR SIMILAR ACTIVITIES	8			F
2ND YEAR CREDIT POINTS	<u>58</u>			
<b>TOTAL CREDIT POINTS</b>	<b>120</b>			

### DATA SCIENCE AND BUSINESS ANALYTICS (DSBA) track Data Science

EDUCATIONAL ACTIVITIES	CPU	Department	Disciplinary fields	Typology and Academic field (ministerial code)
<b>1st year</b>				
<i>1st semester</i>				
20591 COMPUTER PROGRAMMING AND DATABASE SYSTEMS	8	DEC	SECS-S/01	B stat
20592 STATISTICS AND PROBABILITY	8	DEC	6 SECS-S/01 2 MAT/ 06	B stat B mat ap
20595 BUSINESS ANALYTICS	8	MNT	SECS-P/08	C
20594 ECONOMETRICS FOR BIG DATA	8	ECO	SECS-P/05	B stat ap
<i>2nd semester</i>				
20159 BEHAVIORAL SKILLS SEMINAR	2	MNT	SECS-P/10	F
20593 INNOVATION AND MARKETING ANALYTICS	6	MKT/MNT	SECS-P/08	C
20596 MACHINE LEARNING	8	DEC	SECS-S/01	B stat
20602 COMPUTER SCIENCE (ALGORITHMS)	6	DEC	FIS/02	C
20603 OPTIMIZATION	8	DEC	SECS-S/06	B mat ap
	<u>30</u>			
1ST YEAR CREDIT POINTS	62			
<b>2nd year</b>				
<i>1st semester</i>				
20601 DIGITAL PRIVACY SEMINAR	2	IUS	IUS/08	F
20604 STOCHASTIC PROCESSES	8	DEC	SECS-S/01	B stat
20605 MACHINE LEARNING II	6	DEC	FIS/02	C
20110 FOREIGN LANGUAGE	4			F
<i>2nd semester</i>				
20112 THESIS	18			E
<i>any semester</i>				
2 elective courses	12			D
20119 INTERSHIP OR SIMILAR ACTIVITIES	8			F
2ND YEAR CREDIT POINTS	<u>58</u>			
<b>TOTAL CREDIT POINTS</b>	<b>120</b>			

## Attachment A12: Master of Science in Politics and Policy Analysis

Educational activities by year, credits awarded and related disciplinary fields.

POLITICS AND POLICY ANALYSIS (PPA)			Department	Disciplinary fields	Typology and Academic field (ministerial code)
EDUCATIONAL ACTIVITIES		CPU			
<b>1st year</b>					
<i>1st semester</i>					
20607	METHODS AND TOOLS FOR POLICY ANALYSIS	8	SPS	SECS-P/02	B ec stat
20608	WELFARE AND PUBLIC ECONOMICS	8	SPS	SECS-P/03	B ec stat
20609	PUBLIC ADMINISTRATION	6	SPS	SECS-P/07	C
20610	DECISIONS AND ORGANIZATIONS	6	SPS	SPS/04	B pol
20612	POLITICAL SCIENCE - MODULE 1 (TOPICS IN COMPARATIVE POLITICS)	6	SPS	SPS/04	B pol
		<u>34</u>			
<i>2nd semester</i>					
20614	LAW AND POLICY MAKING	6	IUS	IUS/13	B gi
20615	POPULATION DYNAMICS AND POLICIES	6	SPS	SPS/07	B soc
20616	ECONOMICS AND POLITICS	6	ECO	SECS-P/01	C
20613	POLITICAL SCIENCE - MODULE 2 (INTERNATIONAL RELATIONS AND POLITICS)	6	SPS	SPS/04	B pol
20159	BEHAVIORAL SKILLS SEMINAR	2	MNT	SECS-P/10	F
		<u>26</u>			
1ST YEAR CREDIT POINTS		<u>60</u>			
<b>2nd year</b>					
	1 elective course	6		SPS/04	B pol
	3 elective courses §	18			D
20637	PROFESSIONAL ENGLISH SEMINARS	2			F
20111	2nd language	4			F
	ENHANCING EXPERIENCE - ATTIVITA' INTEGRATIVE CURRICULARI/CURRICULAR SUPPLEMENTARY ACTIVITIES	2			F
20119	INTERSHIP OR SIMILAR ACTIVITIES	8			F
20112	THESIS	20			E
		<u>60</u>			
2ND YEAR CREDIT POINTS		<u>60</u>			
<b>TOTAL CREDIT POINTS</b>		<b>120</b>			

## Attachment A13: Master of Science in Cyber Risk Strategy and Governance

Educational activities by year, credits awarded and related disciplinary fields.

### CYBER RISK STRATEGY AND GOVERNANCE (CYBER)

EDUCATIONAL ACTIVITIES	CPU	Department	Disciplinary fields	Typology and Academic field (ministerial code)
<b>1st year</b>				
<i>1st semester Politecnico</i>				
20646 INTRODUCTION TO CYBER RISK (Bocconi)	2	SPS	SECS-P/07	F
20648 Software methodologies and architectures for security - module 1: ENTERPRISE ICT ARCHITECTURES	6	POLI	ING-INF/05	B tec-inf
20649 Software methodologies and architectures for security - module 2: SOFTWARE ENGINEERING METHODOLOGIES FOR SECURITY	6	POLI	ING-INF/05	B tec-inf
20650 CYBER SECURITY TECHNOLOGIES, PROCEDURES AND POLICIES	6	POLI	INF/01	B tec-inf
20651 ARTIFICIAL INTELLIGENCE FOR SECURITY	6	POLI	ING-INF/05	B tec-inf
20652 TECHNOLOGY RISK GOVERNANCE	5	POLI	ING-IND 35	B az-or
	<b>31</b>			
<i>2nd semester Bocconi</i>				
20653 SOCIAL ENGINEERING (Politecnico)	2	POLI	ING-INF/05	F
20654 STRATEGY AND GOVERNANCE FOR CYBER RISK	8	MAN	3 SECS-P/07 5 SECS-P/08	B az-or B az-or
20655 CYBER RISK AND DATA PROTECTION LAW	6	IUS	IUS/04	B u-s-g-e
20656 METHODS AND DATA ANALYTICS FOR RISK ASSESSMENT	7	DEC	SECS-S/06	C
20657 INSTITUTIONAL SCENARIOS OF CYBER RISK	8	SPS	6 SECS-P/02 2 SECS-P/07	B u-s-g-e B az-or
	<b>31</b>			
1ST YEAR CREDIT POINTS	<b>62</b>			
<b>2nd year</b>				
2 ELECTIVES	12			C
2 ELECTIVES	12			D
20110 EU LANGUAGE	4			F
20658 ETHICS SEMINAR (1° sem Politecnico)	2		M-FIL/02	F
20159 BEHAVIOURAL SKILLS SEMINAR (2° sem Bocconi)	2		SECS-P/10	F
20119 INTERSHIP OR SIMILAR ACTIVITIES	8			F
20112 THESIS	18			E
2ND YEAR CREDIT POINTS	<b>58</b>			
<b>TOTAL CREDIT POINTS</b>	<b>120</b>			



## Attachment A14: Master of Science in Transformative Sustainability

Educational activities by year, credits awarded and related disciplinary fields.

TRANSFORMATIVE SUSTAINABILITY			Department	Disciplinary fields	Typology and Academic field (ministerial code)
EDUCATIONAL ACTIVITIES	CPU				
<b>1st year</b>					
<i>1st semester - Bocconi</i>					
20834 SUSTAINABLE LEADERSHIP SEMINAR	2		MNT+POLI	SECS-P/10 ING-IND/35	F F
20818 MANAGEMENT AND ECONOMICS FOR SUSTAINABILITY - MODULE 1 (CORPORATE SUSTAINABILITY STRATEGIES AND GOVERNANCE)	6		MNT	SECS-P/08	B az
20816 SUSTAINABLE FINANCE AND ESG INVESTING	6		FIN	SECS-P/09	B eco
20820 IMPACT AND SUSTAINABILITY MEASUREMENT	6		ACC+POLI	SECS-P/07	B az
20819 MANAGEMENT AND ECONOMICS FOR SUSTAINABILITY - MODULE 2 (ENVIRONMENTAL ECONOMICS AND CLIMATE CHANGE)	6		ECO	SECS-P/01	B eco
20821 ESG LAW	6		IUS	IUS/10	B giur
	<u>32</u>				
<i>2nd semester Politecnico</i>					
20835 CRITICAL THINKING AND COMPLEX DECISION MAKING SEMINAR	2		POLI+MNT	SECS-P/08 ING-IND/35	F F
20824 MATERIALS TOWARDS CIRCULAR ECONOMY	6		POLI	ING-IND/22	B amb
20826 TECHNOLOGIES FOR ENERGY AND SUSTAINABLE TRANSITION - MODULE 1 (ECOLOGICAL PROCESSES, ENVIRONMENTAL IMPACTS AND TRANSITION TOWARDS SUSTAINABILITY)	6		POLI	BIO/07	B amb
20827 TECHNOLOGIES FOR ENERGY AND SUSTAINABLE TRANSITION - MODULE 2 (TECHNOLOGIES FOR THE ENERGY TRANSITION TOWARDS SUSTAINABILITY)	6		POLI	ING-IND/09	C
20822 DESIGNING SUSTAINABLE CITIES	6		POLI+SPS	ICAR/18 ICAR/21	B stor art
20823 INNOVATION FOR SUSTAINABILITY	6		POLI	ING-IND/35	B az
	<u>32</u>				
1ST YEAR CREDIT POINTS	<u>64</u>				
<b>2nd year</b>					
<i>1st semester Bocconi</i>					
20828 BUSINESS AND MARKETING PLAN WORKSHOP	3		MKT	SECS-P/08	C
20829 DATA ANALYTICS FOR SUSTAINABILITY	6		DEC+POLI	SECS-S/06	B stat mat
20110 FOREIGN LANGUAGE	4				F
<i>2nd semester Politecnico</i>					
20830 SUSTAINABLE ENTREPRENEURSHIP WORKSHOP	3		POLI	ING-IND/35	C
20831 SUSTAINABLE OPERATIONS AND SUPPLY CHAIN MANAGEMENT 1 compulsory course to be chosen among:	6		POLI+MNT	ING-IND/17	C
20832 DIVERSITY AND GLOBAL POLICY (1st sem Bocconi) or	6		SPS	SECS-P/03	D
20833 TECHNOLOGIES AND SYSTEMS FOR SUSTAINABLE MOBILITY (2nd sem Politecnico)	6		POLI	ING-IND/13	D
20113 1 ELECTIVE COURSE - 1st or 2nd sem (Bocconi or Politecnico)	6				D
20119 INTERSHIP OR SIMILAR ACTIVITIES	8				F
20112 THESIS	14				E
2ND YEAR CREDIT POINTS	<u>56</u>				
<b>TOTAL CREDIT POINTS</b>	<b>120</b>				

## Attachment A15: Master of Science in Artificial Intelligence

Educational activities by year, credits awarded and related disciplinary fields.

### ARTIFICIAL INTELLIGENCE (AI)

EDUCATIONAL ACTIVITIES	CPU	DEP.	Disciplinary fields	Typology and Academic field (ministerial code)
<b>1st year</b>				
<i>1st semester</i>				
20871 AI ETHICS SEMINAR	2	IUS	IUS/08	F
<i>1 out of 2 bound choice courses:</i>				
20872 MATHEMATICAL METHODS IN COMPUTER SCIENCE	8	DEC	MAT/05	C
20873 ANALYSIS OF ALGORITHMS AND DATA STRUCTURES	8	DCS	INF/01	B-inf
20874 ALGORITHMS FOR OPTIMIZATION AND INFERENCE	8	DCS	INF/01	B-inf
20875 SOFTWARE ENGINEERING	8	DCS	INF/01	B-inf
	<u>26</u>			
<i>2nd semester</i>				
20876 DEEP LEARNING AND REINFORCEMENT LEARNING	8	DCS	INF/01	B-inf
20877 INFORMATION THEORY	8	DCS	INF/01	B-inf
20878 COMPUTER VISION AND IMAGE PROCESSING	8	DCS	ING-INF/05	B-inf
20879 LANGUAGE TECHNOLOGY	8	DCS	ING-INF/05	B-inf
20880 MACHINE LEARNING LAB	2	DCS	INF/01	F
	<u>34</u>			
CFU 1st year	<u>60</u>			
<b>2nd year</b>				
20110 FOREIGN LANGUAGE	4			F
<i>3 out of 4 bound choice courses (1° or 2° sem):</i>				
20881 CRYPTOGRAPHY AND SECURITY	18	DCS	INF/01	C
20882 COMPUTATIONAL NEUROSCIENCES	1° sem	DCS	ING-INF/06	
20883 COMPLEX SYSTEMS AND PHYSICAL MODELS	2° sem	DCS	FIS/02	
20884 BIO-INFORMATICS	2° sem	DCS	ING-INF/06	
<i>1 out of a short list* from Bocconi list (1° or 2° sem):</i>				
20236* TIME SERIES ANALYSIS OF ECONOMIC-FINANCIAL DATA	6	DEC	SECS-S/01	D
20729* BLOCKCHAIN AND CRYPTO ASSETS	1° sem	MNT	3 ING-INF/05 3 SECS-P/07	
20296* ADVANCED MICROECONOMICS	2° sem	ECO	SECS-P/01	
(20902)* FINTECH AND MACHINE LEARNING FOR FINANCE	TBD	FIN	SECS-S/06	
(new)* (TBC) INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS	TBD	DEC	MAT/05	
20114 1 ELECTIVE COURSE	6			D
20119 STAGE O ATTIVITA' ASSIMILABILE	8			F
20112 TESI	18			E
CFU 2nd year	<u>60</u>			

\* The current short list maybe adapted in the future in function of the number of students enrolled in the program

<b>TOTAL CREDIT POINTS</b>	<b>120</b>
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