



UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2025/26
BACHELOR
COMPUTER SCIENCE FOR MEDIA COMMUNICATIONS (Classe L-31 R)
Enrolled in 2025/26

HEADING

Degree classification - Denomination and code:	L-31 R
Degree title:	Dottore
Length of course:	3 years
Total number of credits required to complete programme:	180
Years of course currently available:	1st
Access procedures:	Cap on student, student selection based on entrance test
Course code:	FAC

PERSONS/ROLES

Head of Study Programme

Prof. ssa Sabrina Gaito

Degree Course Coordinator

Prof. Sergio Mascetti

Tutors - Faculty

TUTOR PER L'ORIENTAMENTO:

Giuliano Grossi

Sergio Mascetti

Alessandro Rizzi

Roberto Sassi

Matteo Zignani

Degree Course website

<https://icd.cdl.unimi.it/>

Via Celoria 18 - 20133 Milano <https://di.unimi.it/it/dipartimento/organizzazione/commissioni> Email: orientamento.uscita@di.unimi.it

Via Celoria 18 - 20133 Milano <https://di.unimi.it/it/dipartimento/organizzazione/commissioni> Email: orientamento@di.unimi.it

Via Celoria 18 - 20133 Milano <https://di.unimi.it/it/dipartimento/organizzazione/commissioni> Email: erasmus@di.unimi.it

Via Celoria 18 - 20133 Milano <https://di.unimi.it/it/dipartimento/organizzazione/commissioni> Email: piani.studio@di.unimi.it

Via Celoria 18 - 20133 Milano <https://di.unimi.it/it/dipartimento/organizzazione/commissioni> Email: trasferimenti@di.unimi.it

Via Celoria 18 - 20133 Milano <https://di.unimi.it/it/dipartimento/organizzazione/commissioni> Email: commTesiL3@di.unimi.it

Via Celoria 18 - 20133 Milano Phone 0250325032 <https://www.unimi.it/it/node/360> <https://www.unimi.it/it/node/359/>

Email: rappresentanti.studenti@di.unimi.it

Via Celoria 18 - 20133 Milano Phone 0250316250/252 Sportello in presenza: mercoledì dalle 14.00 alle 16.00 / Sportello telefonico: giovedì dalle 9.30 alle 12.30 <https://informastudenti.unimi.it/saw/ess?AUTH=SAML>

CHARACTERISTICS OF DEGREE PROGRAMME

Initial knowledge required

Requirements and knowledge required for admission

To be admitted to the Degree Course, candidates must have a secondary school diploma or another qualification obtained abroad, recognized as suitable, as well as having adequate initial preparation. In particular, knowledge of basic scientific disciplines and understanding of elementary logic with a level of depth equal to that deriving from secondary school preparation are required.

Methods of verification of knowledge and personal preparation

The methods of access are established by the Admission Notice published on the page: <https://informatica.cdl.unimi.it/it/iscriversi>.

The course has a limited number of places in order to guarantee the quality of the educational offer in relation to the available resources and requires a TOLC (CISIA Online Test) as a test for admission. For enrollment in the first year, 150 places are available, of which 5 are reserved for non-EU students not residing in Italy. The TOLC can be taken at the University of Milan or any other university belonging to CISIA (Interuniversity Consortium for Integrated Access Systems). Registration for the TOLC must be done on the CISIA website (<https://www.cisiaonline.it/>).

The TOLC valid for registration is the TOLC-S, composed of the following sections: Basic mathematics (20 questions - 50 minutes), Reasoning, problems and text comprehension (15 questions - 30 minutes). Score: +1 for each correct answer, -0.25 for each incorrect answer, 0 for each unanswered question. The TOLC contains some additional sections (Biology, Chemistry, Physics, Geology, English). The results of these sections do not contribute to the test score.

After taking the TOLC-S, students must register for the selection for admission to the Degree Course, as indicated in the announcement. They will then be included in the merit ranking that will be formulated on the basis of the score obtained in the test, weighted, for each section, according to the criteria indicated in the announcement. The winners will be able to enroll within the established deadlines.

The selection is divided into distinct periods starting in February and ending in the first days of September.

Enrolled students who have not achieved a score greater than or equal to 10 in the Basic Mathematics module of the TOLC will be assigned Additional Training Obligations (OFA).

Additional training obligations and OFA recovery methods

For students with OFA, support activities will be organized in the period October-December, followed by a recovery test with which the student will have to demonstrate that he/she has improved his/her preparation. In the absence of this evidence, the student will not be able to take any second-year exams before passing the Mathematics I exam. Information: <https://icd.cdl.unimi.it/studiare/le-matricole>

Transfers and second degrees

Students already enrolled in a degree course at the University of Milan, at another University or already graduated, can be exempted from the test only if they meet the following requirements to be verified during the pre-evaluation of their career:

- if the student, during the pre-evaluation phase, is recognized at least 30 credits, he/she is admitted to the second year or third year with exemption from the test;
- if the student is recognized less than 30 credits, he/she must register for the test and selection as indicated above.

To access the pre-evaluation, a specific request for preventive evaluation of the career must be submitted by accessing the online service indicated in the admission notice. Those interested must declare all the exams taken with the relative sectors, credits and grades and attach the course programs. For further details on the procedure, please refer to the announcement. The request for career evaluation must be submitted without fail by the date indicated in the announcement. The outcome of the evaluation will be communicated via email by the date indicated in the announcement.

Students admitted to years subsequent to the first must enroll by the deadlines and in the manner specified in the announcement.

Part-time enrollment

Part-time enrollment is also possible. The relevant Regulations can be found at the following link <https://www.unimi.it/it/ateneo/normative/regolamenti/regolamento-le-iscrizioni-tempo-parziale>

Compulsory attendance

Attendance is strongly recommended for both courses and laboratories.

Internship criteria

The internship is mandatory, is linked to the final paper and can be carried out on or off campus (at a company or another organization).

The internship experience normally consists of participating in a significant project, within which the student will independently carry out the activities assigned to him/her in accordance with the number of credits awarded for the internship under that programme (see "Manifesto degli studi").

The final paper must document the design and implementation aspects of the activity carried out, the professional or scientific skills learned, as well as its connections with the state of the art in the IT sector.

The internship must last at least 12 weeks.

Upon completion of the internship, the student will earn 18 CFU, subject to the positive opinion of the Academic Board.

For the student to start the internship, he/she must comply with all the provisions of the relevant regulations.

Find out how to apply for an internship, read internship regulations and more at <https://icd.cdl.unimi.it/studiare/stage-e-tirocini>

Degree programme final exams

The degree is obtained by passing a final exam, which consists of the presentation of a final report prepared by the student and related to the internship activity carried out. It must concern a theoretical or experimental activity carried out by the

student, independently although under the guidance of one or more supervisors, at research laboratories, institutions or companies.

Campus

IT course venues: via Celoria 18 - Milan.

Other course venues: Teaching sector, via Celoria 20; Teaching sector, via Golgi 19; Teaching sector, via Venezian 15.

Laboratories

Computer laboratory (Silab) at the Department of Computer Science, via Celoria 18, Milan.

Notes

In order to obtain their degree, students must be proficient in English at a B1 level under the Common European Framework of Reference for Languages (CEFR). This proficiency level may be certified as follows:

- By submitting a language certificate attesting B1 or higher level in English and issued no more than three years before the date of submission. You will find the list of language certificates recognized by the University at: <https://www.unimi.it/en/node/39322>. The certificate must be uploaded during the enrolment procedure, or subsequently to the portal <http://studente.unimi.it/uploadCertificazioniLingue>;

- By taking a placement test offered by the University Language Centre (SLAM) between October and December of the first year. Students who fail the test will be required to take a SLAM course.

The placement test is mandatory for all those who do not hold a valid certificate.

Those who have not taken the placement test by the end of December or fail the end-of-course exam six times must obtain the necessary certification privately before graduating.

EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING 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 organisations.

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

The University of Milan is a member of the 4EU+ European University Alliance that brings together eight public multidisciplinary universities: University of Milan, Charles University of Prague, Heidelberg University, Paris-Panthéon-Assas University, Sorbonne University of Paris, University of Copenhagen, University of Geneva, and University of Warsaw. The 4EU+ Alliance offers integrated educational pathways and programmes to promote the international mobility of students (physical, blended and virtual).

Study and internships abroad

The education program can be enriched by educational activities abroad both to deepen some topics and as socialization experience in international environments. Within the Erasmus+ program study periods can be taken in over 50 universities in Belgium, Czech Republic, Finland, France, Germany, Greece, Hungary, Lithuania, Norway, Netherlands, Poland, Portugal, Romania, Slovenia, Spain, Switzerland, Turkey. Courses will be recognized in the personalized study plan. These periods abroad are typically 5-month long and include courses for about 30 CFU, in the area of information and communication technology and related applications. Recognition of these educational activities will be based on the Learning Agreement, to be defined in advance by the student and the Erasmus coordinator at the Computer Science Department before starting the period abroad: course in the learning agreement with passed exams will replace the educational activities of the study plan ("manifesto"), either by covering the same topics or complementing the acquired basic competences. The Erasmus Committee at the Computer Science Department will perform the recognition of CFU obtained abroad and the definition of the personalized study plan. Similarly, stages to prepare the final dissertation are allowed in the same foreign universities. Recognition will be performed by the Department Erasmus Committee.

Erasmus: the coordinator for the Department of Informatics is Prof. Fabio Scotti.

International Programs: the coordinator for the Department of Informatics is Prof. Davide Rocchesso.

More information are available at the following link: <https://di.unimi.it/it/rapporti-internazionali/mobilita-internazionale/opportunita-internazionali>

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 organises 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;

Student Desk booking through InformaStudenti

1st COURSE YEAR Core/compulsory courses/activities common		
Learning activity	Ects	Sector
COMPUTER ARCHITECTURE	6	INF/01
COMPUTER PROGRAMMING I	12	INF/01
English assessment B1 (3 ECTS)	3	ND
HUMAN-COMPUTER INTERACTION	6	INF/01
INFORMATION TECHNOLOGY LAW	6	IUS/20
MATHEMATICS I	9	(4) MAT/03, (5) MAT/05
MATHEMATICS II	9	(5) MAT/03, (4) MAT/05
OPERATING SYSTEMS	6	INF/01
	Total compulsory credits	57
2nd COURSE YEAR (available as of academic year 2026/27) Core/compulsory courses/activities common		
Learning activity	Ects	Sector
ALGORITHMS AND DATA STRUCTURES	6	INF/01
COMPUTER NETWORKS	6	INF/01
COMPUTER PROGRAMMING II	6	INF/01
DATABASES AND WEB	12	INF/01
DIGITAL MARKETING	6	SECS-P/08
SIGNAL PROCESSING	6	ING-INF/05
STATISTICS AND DATA ANALYSIS	6	SECS-S/01
WEB AND CLOUD APPLICATIONS	6	INF/01
	Total compulsory credits	54
Elective courses		
COMPUTER GRAPHICS	6	INF/01
FUNDAMENTALS OF DIGITAL SOCIAL MEDIA	6	INF/01
3rd COURSE YEAR (available as of academic year 2027/28) Core/compulsory courses/activities common		
Learning activity	Ects	Sector
DATA VISUALIZATION	6	INF/01
	Total compulsory credits	6
Elective courses		
MOBILE COMPUTING	9	INF/01
SOCIAL MEDIA MINING	12	INF/01
MULTIMEDIA INFORMATION	12	INF/01
MULTIMEDIA PROJECT	9	INF/01

End of course requirements			
FINAL EXAM		3	NA
SEMINARS		3	NA
TRAINING		18	NA
	Total compulsory credits	24	

COURSE PROGRESSION REQUIREMENTS

The course contains the following obligatory or advised prerequisites

Learning activity	Prescribed foundation courses	O/S
SIGNAL PROCESSING	MATHEMATICS II	Core/compulsory
	MATHEMATICS I	Core/compulsory
STATISTICS AND DATA ANALYSIS	MATHEMATICS I	Core/compulsory
DATABASES AND WEB	COMPUTER PROGRAMMING I	Core/compulsory
ALGORITHMS AND DATA STRUCTURES	COMPUTER PROGRAMMING I	Core/compulsory
COMPUTER PROGRAMMING II	COMPUTER PROGRAMMING I	Core/compulsory