



ALMA MATER STUDIORUM - UNIVERSITA' DI BOLOGNA

MATRICULATION NUMBER 0000478476

REG.N. 283964 MECC.

We hereby certify that

Mr TICCHI ALESSANDRO BORN ON 14/03/1987
IN CATTOLICA (RIMINI)
IS CURRENTLY ENROLLED IN ACADEMIC YEAR 2
AT THE FACULTY OF : Mathematical, Physical and Natural Sciences
DEGREE PROGRAMME : Physics (Second cycle degree programme)
MAIN FIELD OF STUDY FOR THE QUALIFICATION : LM-17 Physics
ADMINISTRATIVE OFFICE : BOLOGNA

AT THIS UNIVERSITY, FOR THE ACADEMIC YEAR 2010/2011.

THE ABOVE SAID STUDENT WAS ENROLLED TO THE FIRST YEAR ON 23/09/2009 IN THE ACADEMIC
YEAR 2009/2010.

WE ALSO CERTIFY THAT THE REGULAR DURATION OF THE ABOVE SAID DEGREE COURSE IS OF 2
ACADEMIC YEARS, AND THAT THE ABOVE SAID STUDENT HAS CURRENTLY PASSED THE FOLLOWING
EXAMS AND LEARNING ACTIVITIES WITH THE FINAL GRADES INDICATED NEXT TO EACH OF THEM AND
EXPRESSED IN A 30/30 GRADING SCALE

LEARNING ACTIVITIES SUCCESSFULLY COMPLETED IN THE LAST ATTENDED PROGRAMME

Learning activities	Grade	ECTS Scale	Date (dd/mm/yyyy)	SSD	CFU/ ECTS
Advanced Mathematical Methods of Physics	30 L	A(1)	17/02/2010	FIS/02	6,00
Cosmology	30	B(1)	14/10/2010	FIS/05	6,00
Physics of Materials	30 L	A(1)	17/05/2011	FIS/03	6,00
Relativity 1	30	B(1)	18/01/2010	FIS/02	6,00
Relativity 2	30	B(1)	08/07/2010	FIS/02	6,00
Statistical Mechanics	30 L	A(1)	22/06/2010	FIS/02	12,00
Theoretical Physics	30 L	A(1)	25/05/2010	FIS/02	12,00
Theory of Fields	30	B(1)	10/12/2010	FIS/02	12,00
Theory of Groups	30 L	A(1)	18/01/2010	FIS/02	6,00

(1)

Exam taken at the Faculty of Mathematical, Physical and Natural Sciences
ECTS grading scale - Institutional grading system of the Faculty of Mathematical,
Physical and Natural Sciences

A Excellent	30 e lode
B Very Good	29-30
C Good	26-28
D Satisfactory	22-25
E Sufficient	18-21

DATE: Bologna, 25/07/2011

Head of University's Registry Office
Dott.ssa Elisabetta De Toma



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The successful passing grade for each exam or learning activity may range from 18 to 30. The highest possible grade is '30 e lode' (30L), i.e. 30 with honours. For specific exams and learning activities there is no grade, but only an 'approved' (ID) evaluation.

1 CFU = Credit Unit = 1 ECTS = 25 working hours (teaching, independent study, examinations, tutorials)

N.A. = Not applicable, course taken in a different University.

SSD = Scientific field/Discipline

RC = recognised

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The Italian University System

(DM 509/99 and DM 270/2004)

Since 1999, Italian university studies have been reformed so as to meet the objectives of the "Bologna process". The university system is now organised in 3 cycles: the *Laurea*, the 1st cycle academic degree, grants access to the 2nd cycle, and the *Laurea specialistica/magistrale*, the main degree of the 2nd cycle, gives access to 3rd cycle courses awarding the *Dottorato di ricerca*. In addition to the three sequential degrees mentioned above, the system offers other programmes with their respective degrees.

First cycle. First cycle studies consist exclusively in *Corsi di Laurea*, aimed at guaranteeing students an adequate command of general scientific methods and contents as well as specific professional skills. The general access requirement is the school leaving qualification awarded on completion of 13 years of global schooling and after the relevant State examinations; also comparable foreign qualifications may be accepted. Admission to individual degree courses may be subject to specific course requirements. *Laurea* courses last 3 years. The *Laurea* (1st degree) is awarded to students who have earned 180 credits; the completion of a training period and the defence of a thesis may also be required. The *Laurea* grants access to competitions for the civil service, to regulated and non-regulated professions, and to 2nd cycle courses.

Second cycle. Second cycle studies include the following typologies:

A) *Corsi di Laurea specialistica/Corsi di Laurea magistrale*; they are aimed at providing students with an advanced level of education for the exercise of a highly qualified activity in specific areas. Access is usually by a *Laurea* or a comparable foreign degree; admission is subject to specific course requirements determined by individual universities; workload: 120 credits; length: 2 years. The awarding of the degree, *Laurea specialistica/magistrale* (2nd cycle degree of the "Bologna process") is conditional on the defence of a thesis. The change of the name from *Laurea specialistica* into *Laurea magistrale* was decided in 2004.

A limited number of 2nd cycle programmes (dentistry, human medicine, pharmacy, veterinary medicine, architecture, law), are defined *Corsi di Laurea specialistica/magistrale a ciclo unico* (one-block LS/LM courses); access is by the school leaving diploma or a comparable foreign qualification; admission is subject to selective entrance exams; each degree course is organised in just one-block of 5 years and 300 credits (only human medicine requires 6 years and 360 credits). All *Lauree specialistiche/magistrali* grant access to competitions for the civil service, to regulated and non-regulated professions, research doctorate programmes and all the other degree courses of the 3rd cycle.

B) *Corsi di Master universitario di primo livello*. They consist in advanced scientific courses or higher continuing education studies open to the holders of a *Laurea* or a comparable foreign degree; admission may be subject to additional conditions. Length: minimum 1 year; workload: 60 credits at least. The *Master universitario di primo livello* does not give access to the 3rd cycle.

Third cycle. Third cycle studies include the following typologies:

A) *Corsi di Dottorato di Ricerca* aim at training students for very advanced scientific research; they adopt innovative teaching methodologies, updated technologies, training periods abroad and supervised activities in specialized research centres. Admission requires a *Laurea specialistica/magistrale* (or a comparable foreign degree) and to pass a specific competition; studies last a minimum of 3 years; the doctoral student must work out an original dissertation to be defended in the final examination.

B) *Corsi di specializzazione* are devised to provide students with knowledge and abilities as requested in the practice of highly qualified professions; they mainly concern medical, clinical and surgical specialities. Admission requires a *Laurea specialistica/magistrale* (or a comparable foreign degree) and the passing of a competitive examination; course length varies in relation to subject fields. The final degree, *Diploma di specializzazione*, gives the right to the title as *Specialista*.

C) *Corsi di Master universitario di secondo livello* consist in advanced scientific courses or higher continuing education studies, open to the holders of an LS or a comparable foreign degree. Length: minimum 1 year; workload: 60 credits at least.

Credits: degree courses are usually structured in credits. A university credit generally corresponds to 25 hours of global work per student, time

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for personal study included. The average workload of a full time student is conventionally fixed at 60 credits per year.

Classes of degree courses: all degree courses sharing educational objectives and teaching-learning activities are organised in groups called *classi*. The content of individual degree courses is autonomously determined by universities; however, when establishing a degree course, individual institutions have to adopt some general requirements fixed at national level. Degrees belonging to the same class have the same legal validity.

Academic titles: the *Laurea* confers the title "*Dottore*", the *Laurea specialistica/magistrale* that of *Dottore magistrale*, the *Dottorato di ricerca* that of "*Dottore di ricerca*".

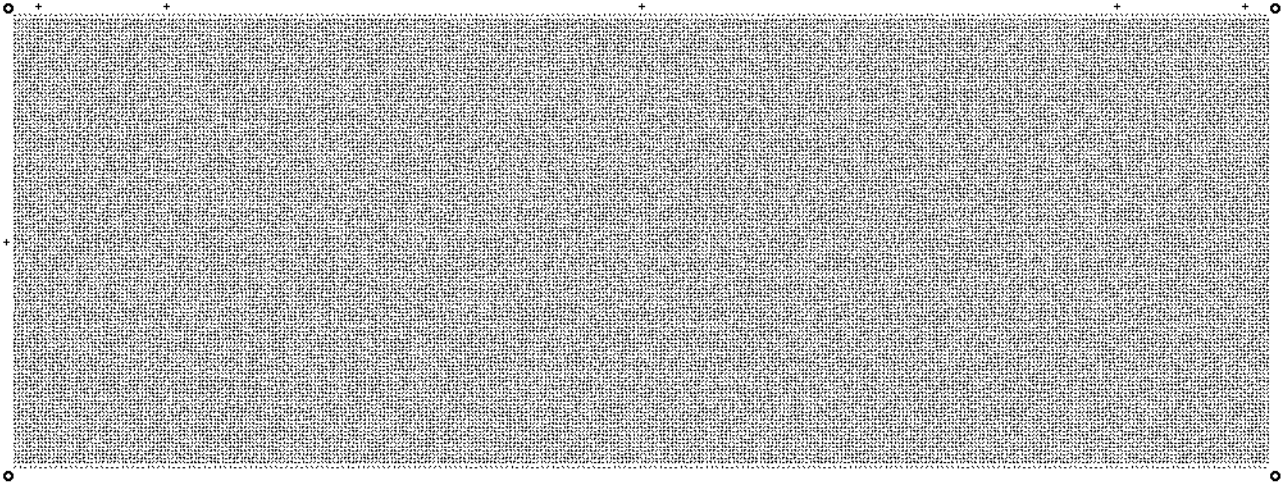
Joint degrees: Italian universities may establish degree courses in cooperation with foreign partner universities; on completion of integrated curricula joint or double/multiple degrees are awarded.

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Reason for request: application

Exemption: [Nessuna Esenzione Selezionata]

Issued on: 25/07/2011

Head of Division

Dott.ssa Elisabetta De Toma

The Certificates are subject to a duty stamp of 14.62 euro Euros (called marca da bollo) unless explicitly exempted by law.

The stamp must be put on the certificate and on the day the certificate is issued

It is hereby declared that the above digital stamp contains digitally signed by the issuing body attests its authenticity and integrity

To verify the authenticity of the digital signature, please download the software Decoder 2DPlus software, available at www.secure-edge.com

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