

Instructions for students enrolled in the Master Degree in Computer Science (old regulation) who want to move to the new curricula

With the academic year 2017/2018, new curricula and new courses were introduced.

In order to simplify the move from the old to the new regulation, students are suggested to choose the curriculum that better matches with the exams already taken.

In this transient phase, the Aggregate Council of the Course of Study in Computer Science has decided to guarantee some flexibility in the choice of elective courses: all the examinations already passed can be recognized as elective courses for any curriculum chosen in the move. In addition, all the examinations passed as *free choice exams* in an approved study plan will be recognized as a *free choice exams* according to the new regulation.

Such flexibility is not, however, foreseen for *characterizing* courses. In order to obtain the mention of the curriculum in the *diploma supplement*, all the *characterizing* examinations of the chosen curriculum have to be passed.

The following tables show the courses that can be recognized:

Artificial intelligence Characterizing courses

Course (old regulation)	Course (new regulation)
320AA - Apprendimento automatico: fondamenti (6)	654AA - Machine learning (9) <i>with a supplementary interview of 3 CFU to be agreed with the lecturer</i>
337AA - Elaborazione del Linguaggio Naturale (6)	649AA - Human language technologies (9) <i>with a supplementary interview of 3 CFU to be agreed with the lecturer</i>
371AA - Metodi numerici e ottimizzazione (12)	646AA - Computational mathematics for learning and data analysis (9)
==	643AA - Artificial intelligence fundamentals (6)
340AA - Elaborazione di Segnali e Immagini (6)	651AA - Intelligent systems for pattern recognition (6)
305AA - Sistemi distribuiti: paradigmi e modelli (9)	305AA - Parallel and distributed systems: paradigms and models (9)
==	658AA - Smart applications (9)

Elective courses

Course (old regulation)	Course (new regulation)
289AA - Information Retrieval (6)	289AA - Information Retrieval (6)
321AA - Apprendimento Automatico: Reti Neurali e Metodi Avanzati (6)	674AA - Computational neuroscience (6)
==	657AA - Semantic web (6)
387AA - Robotica (6)	387AA - Robotics (6)
531AA - Ingegneria degli algoritmi (9)	531AA - Algorithm engineering (9)
386AA - Reti mobili: reti ad hoc e di sensori (6)	655AA - Mobile and cyber-physical systems (9) <i>with a supplementary interview of 3 CFU to be agreed with the lecturer</i>
332AA - Data Mining: aspetti avanzati e casi di studio (6)	309AA - Data Mining (9)
335AA - Data Mining: fondamenti (6)	

Data and knowledge: science and technologies

Characterizing courses

Course (old regulation)	Course (new regulation)
531AA - Ingegneria degli algoritmi (9)	531AA - Algorithm Engineering (9)
332AA - Data Mining: aspetti avanzati e casi di studio (6)	309AA - Data Mining (9)
335AA - Data Mining: fondamenti (6)	
371AA - Metodi numerici e ottimizzazione (12)	646AA - Computational mathematics for learning and data analysis (9)
289AA - Information Retrieval (6)	289AA - Information Retrieval (6)
324AA - Basi di dati II (9)	641AA - Advanced databases (9)
315AA - Algoritmi per la bioinformatica (6)	644AA - Bioinformatics (6)
305AA - Sistemi distribuiti: paradigmi e modelli (9)	305AA - Parallel and distributed systems: paradigms and models (9)

Elective courses

Course (old regulation)	Course (new regulation)
==	650AA - ICT infrastructures (6)
599AA - Big data analytics (6)	599AA - Big data analytics (6)
342AA - Fondamenti di Grafica 3D (6)	656AA - Scientific and large data visualization (6)
261AA - Sistemi Peer to Peer (6)	261AA - Peer to peer systems and blockchains (6)
318AA - Analisi dei rischi informatici (6)	303AA - ICT risk assessment (9) with a supplementary interview of 3 CFU to be agreed with the lecturer
386AA - Reti mobili: reti ad hoc e di sensori (6)	655AA - Mobile and cyber-physical systems (9) with a supplementary interview of 3 CFU to be agreed with the lecturer
320AA - Apprendimento automatico: fondamenti (6)	654AA - Machine learning (9) with a supplementary interview of 3 CFU to be agreed with the lecturer
337AA - Elaborazione del Linguaggio Naturale (6)	649AA - Human language technologies (9) with a supplementary interview of 3 CFU to be agreed with the lecturer

ICT solutions architect

Characterizing courses

Course (old regulation)	Course (new regulation)
531AA - Ingegneria degli algoritmi (9)	531AA - Algorithm Engineering (9)
389AA - Servizi software (6)	290AA - Advanced software engineering (9) with a supplementary interview of 3 CFU to be agreed with the lecturer
301AA - Programmazione avanzata (9)	301AA - Advanced programming (9) (**)
==	650AA - ICT infrastructures (6)
261AA - Sistemi Peer to Peer (6)	261AA - Peer to peer systems and blockchains (6)
386AA - Reti mobili: reti ad hoc e di sensori (6)	655Aa - Mobile and cyber-physical systems (9) with a supplementary interview of 3 CFU to be agreed with the lecturer
318AA - Analisi dei rischi informatici (6)	303AA - ICT risk assessment (9) with a supplementary interview of 3 CFU to be agreed with the lecturer

(**) If the student asks for the recognition of "Principi dei linguaggi di programmazione" as an affiliate as it has already been supported, he must agree the "Advanced programming" program with the lecturer.

Elective courses

Course (old regulation)	Course (new regulation)
289AA - Information Retrieval (6)	289AA - Information Retrieval (6)
342AA - Fondamenti di Grafica 3D (6)	656AA - Scientific and large data visualization (6)
293AA - Metodi formali per la sicurezza (6)	293AA - Security methods and verification (6)
==	651AA - Intelligent systems for pattern recognition (6)
305AA - Sistemi distribuiti: paradigmi e modelli (9)	305AA - Parallel and distributed systems: paradigms and models (9)
402AA - Tecniche di analisi statica di sistemi (6)	660AA - Software validation and verification (9) with a supplementary interview of 3 CFU to be agreed with the lecturer
332AA - Data Mining: aspetti avanzati e casi di studio (6)	309AA - Data Mining (9)
335AA - Data Mining: fondamenti (6)	
320AA - Apprendimento automatico: fondamenti (6)	654AA - Machine learning (9) with a supplementary interview of 3 CFU to be agreed with the lecturer

Software: programming, principles, and technologies

Characterizing courses

Course (old regulation)	Course (new regulation)
316AA - Algoritmica II (9)	642AA - Algorithm design (9)
==	645AA - Competitive programming and contests (6)
375AA - Modelli di calcolo (9)	375AA - Principles for software composition (9)
603AA - Principi dei linguaggi di programmazione (9)	653AA - Languages, compilers and interpreters (9)
293AA - Metodi formali per la sicurezza (6)	293AA - Security methods and verification (6)
==	652AA - Laboratory for innovative software (6)
==	660AA - Software validation and verification (9)

Elective courses

Course (old regulation)	Course (new regulation)
289AA - Information Retrieval (6)	289AA - Information retrieval (6)
315AA - Algoritmi per la bioinformatica (6)	644AA - Bioinformatics (6)
388AA - Semantica e teoria dei tipi (6)	648AA - Foundations of computing (6)
293AA - Metodi formali per la sicurezza (6)	293AA - Security methods and verification (6)
==	650AA - ICT infrastructures (6)
305AA - Sistemi distribuiti: paradigmi e modelli (9)	305AA - Parallel and distributed systems: paradigms and models (9)
301AA - Programmazione avanzata (9)	301AA - Advanced programming (9) (**)
==	658AA - Smart applications (9)
389AA - Servizi software (6)	290AA - Advanced software engineering (9) with a supplementary interview of 3 CFU to be agreed with the lecturer
320AA - Apprendimento automatico: fondamenti (6)	654AA - Machine learning (9) with a supplementary interview of 3 CFU to be agreed with the lecturer
371AA - Metodi numerici e ottimizzazione (12)	646AA - Computational mathematics for learning and data analysis (9)
386AA - Reti mobili: reti ad hoc e di sensori (6)	655AA - Mobile and cyber-physical systems (9) with a supplementary interview of 3 CFU to be agreed with the lecturer

(**) If the student asks for the recognition of "Principi dei linguaggi di programmazione" as an elective as it has already been taken, then he/she must agree on the program of "Advanced programming" with the lecturer.