Università degli Studi di PADOVA

MANIFESTO DEGLI STUDI

Dipartimento di Matematica "Tullio Levi-Civita" - DM

Corso di Studio: DATA SCIENCE
ORDINAMENTO 2017/2018
Corso di Laurea Magistrale

Classe: LM-91 - Classe delle lauree magistrali in Tecniche e metodi per la società dell'informazione

ANNO DI EMISSIONE 2020/2021
OFFERTA REVISIONE 2020/2021

Schema SC2377_BA - Study plan Biological Data Analytics with automatic approval - first year 2020

First year mandatory courses (2 BLK) - (regola 1)

Students enrolled in the first year of the master's degree program ex DM 270/2004 (enrolment in the a.y. 2020/2021) are required to complete the online study plan, choosing the curriculum of interest (Mathematics of Data Science, Biological Data Analytics, Machine Learning for Intelligence systems or Cognitive, Social and Economic Data Analytics). The study plan needs to be filled in with the first year activities (which vary according to the chosen plan); in the second year of the program it will be possible to modify the study plan (adding the activities of the second year to complete the educational path). The study plan includes mandatory and elective courses, the latter can either be chosen within a given list of courses offered in the curricula or freely chosen by the student. When filling in the study plan, the student can choose an automatically approved study plan. In this case, the elective courses independently chosen by the student must all be selected from a given list and the plan will be automatically approved. The student can otherwise choose a study plan subject to approval, which will be reviewed by the didactics committee for approval. In this case, the activities freely chosen by the student (CREDITI LIBERI) can be selected from all courses taught at the University of Padova. A choice consistent with the study plan is highly recommended in order to increase the chance of approval.

Blocco n. 1: SCP7079226 STATISTICAL LEARNING (C.I.)
Blocco n. 2: SCP7079229 OPTIMIZATION FOR DATA SCIENCE

Study plan Biological Data Analytics: first year courses (5 BLK) - (regola 2)

Blocco n. 1: SCP7078720 FUNDAMENTALS OF INFORMATION SYSTEMS
Blocco n. 2: SCP7079197 STOCHASTIC METHODS
Blocco n. 3: SCP8082660 MACHINE LEARNING
Blocco n. 4: SCP7079278 STRUCTURAL BIOINFORMATICS
Blocco n. 5: SCP8084903 INTRODUCTION TO MOLECULAR BIOLOGY
**First year elective course (6 CFU) - (regola 3)**

The course (6 CFU) can be chosen among the 6-CFU elective courses included in the curricula of the master's degree program. Another 6-CFU course will be chosen by filling in the study plan at the beginning of the second year (students can also modify previously-made choices).

- SCQ0089498 COGNITION AND COMPUTATION
- SCP7079318 KNOWLEDGE AND DATA MINING
- SCP9087563 VISION AND COGNITIVE SERVICES
- SCQ0093689 FINANCIAL MATHEMATICS FOR DATA SCIENCE
- SCP9087561 DEEP LEARNING
- SCP7079197 STOCHASTIC METHODS
- SCQ0093688 HIGH DIMENSIONAL PROBABILITY FOR DATA SCIENCE
- SCP8082660 MACHINE LEARNING
- SCP7079406 MATHEMATICAL MODELS AND NUMERICAL METHODS FOR BIG DATA
- SCP7079278 STRUCTURAL BIOINFORMATICS
- SCP8084903 INTRODUCTION TO MOLECULAR BIOLOGY
- SCP7079399 LAW AND DATA

**Final examination (1 BLK) - (regola 4)**

**WARNING:** This is the last requirement. In order to conclude the procedure you have to click the "CONFERMA PIANO" button (otherwise the study plan will not be saved). You can check and print your study plan. It should contain today's date and the status "Piano scelto via web". A plan with status "BOZZA" is not valid.

- Blocco n. 1: SCP7079319 FINAL EXAMINATION
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ANNO DI EMISSIONE 2020/2021
OFFERTA REVISIONE 2020/2021

Schema SC2377_BP - Study plan Biological Data Analytics subject to approval - first year 2020

First year mandatory courses (2 BLK) - (regola 1)
Students enrolled in the first year of the master's degree program ex DM 270/2004 (enrolment in the a.y. 2020/2021) are required to complete the online study plan, choosing the curriculum of interest (Mathematics of Data Science, Biological Data Analytics, Machine Learning for Intelligence systems or Cognitive, Social and Economic Data Analytics). The study plan needs to be filled in with the first year activities (which vary according to the chosen plan); in the second year of the program it will be possible to modify the study plan (adding the activities of the second year to complete the educational path). The study plan includes mandatory and elective courses, the latter can either be chosen within a given list of courses offered in the curricula or freely chosen by the student. When filling in the study plan, the student can choose an automatically approved study plan. In this case, the elective courses independently chosen by the student must all be selected from a given list and the plan will be automatically approved. The student can otherwise choose a study plan subject to approval, which will be reviewed by the didactics committee for approval. In this case, the activities freely chosen by the student (CREDITI LIBERI) can be selected from all courses taught at the University of Padova. A choice consistent with the study plan is highly recommended in order to increase the chance of approval.

   Blocco n. 1: SCP7079226 STATISTICAL LEARNING (C.I.)
   Blocco n. 2: SCP7079229 OPTIMIZATION FOR DATA SCIENCE

Study plan Biological Data Analytics: first year courses (5 BLK) - (regola 2)

   Blocco n. 1: SCP7078720 FUNDAMENTALS OF INFORMATION SYSTEMS
   Blocco n. 2: SCP7079197 STOCHASTIC METHODS
   Blocco n. 3: SCP8082660 MACHINE LEARNING
   Blocco n. 4: SCP7079278 STRUCTURAL BIOINFORMATICS
   Blocco n. 5: SCP8084903 INTRODUCTION TO MOLECULAR BIOLOGY
Free choice from courses taught at the University of Padova (6 CFU) - (regola 3)
A choice consistent with the study plan is highly recommended in order to increase the chance of approval.

Final examination (1 BLK) - (regola 4)
WARNING: This is the last requirement. In order to conclude the procedure you have to click the "CONFERMA PIANO" button (otherwise the study plan will not be saved). You can check and print your study plan. It should contain today's date and the status "Piano scelto via web". A plan with status "BOZZA" is not valid.

Blocco n. 1: SCP7079319 FINAL EXAMINATION