

course	SSD	Type of activity	language	hrs	credits	year of attendance	final test	mandatory/ optional
METODI PER LA RICERCA I/RESEARCH METHODS I	SPS/09	laboratory	English	12	1	1 st	YES	mandatory
METODI PER LA RICERCA II/RESEARCH METHODS II	SECS-S/01	laboratory	English	12	1	1 st	YES	mandatory
METODI PER LA RICERCA III/RESEARCH METHODS III	ING-INF/05	laboratory	English	12	1	1 st	YES	mandatory
COMPRENDERE L'INNOVAZIONE /UNDERSTANDING INNOVATION	SECS-P/08	laboratory	English	24	2	1 st	YES	mandatory
GESTIONE DELL'INNOVAZIONE SOSTENIBILE/MANAGING SUSTAINABLE INNOVATION	GEO/02	laboratory	English	12	1	1 st	YES	mandatory
DISUGUAGLIANZA SOCIALE & GIUSTIZIA SOCIALE I/ SOCIAL INEQUALITY & SOCIAL JUSTICE I	SPS/01	lesson	English	8	1	1 st	YES	mandatory
DISUGUAGLIANZA SOCIALE & GIUSTIZIA SOCIALE II/ SOCIAL INEQUALITY & SOCIAL JUSTICE II	PED/03	lesson	English	8	1	1 st	YES	mandatory
ADVANCED PUBLIC MANAGEMENT: ACCOUNTING & AUDITING	SECS-P/07	lesson	English	16	2	1 st	YES	optional
MANAGEMENT THEORY	SECS-P/07	lesson	English	24	3	1 st	YES	optional
INNOVATION MANAGEMENT AND ENTREPRENEURSHIP	SECS-P/08	lesson	English	24	3	1 st	YES	optional
SOCIAL MEDIA ANALYTICS	INF/01	laboratory	English	12	1	1 st	YES	optional
INTRODUCTION TO QUANTUM COMPUTING AND QUANTUM ALGORITHMS	FIS/02	lesson	English	16	2	1 st	YES	optional
NUMERICAL METHODS FOR PDEs	PHYS/05	lesson	English	8	1	1 st	YES	optional
SCIENTIFIC COMPUTING WITH PYTHON	ING-INF/01	lesson	English	16	2	1 st	YES	optional
DEEP LEARNING FOR PHYSICISTS	ING-INF/01	lesson	English	16	2	1 st	YES	optional
INTRODUCTION TO PLASMA BOUNDARY IN FUSION DEVICE	PHYS/01	lesson	English	16	2	1 st	YES	optional
PHOTONIC FRONTIERS: NAVIGATING THE LASER LANDSCAPE IN PHYSICS	PHYS/07	lesson	English	8	1	1 st	YES	optional
RECENT DEVELOPMENT IN PLASMA PHYSICS	PHYS-03/A	lesson	English	8	1	1 st	YES	optional
TRANSFORMERS ARCHITECTURE: VARIANTS AND APPLICATIONS	INF/01	lesson	English	16	2	1 st	YES	optional
INTRODUCTION TO KNOWLEDGE GRAPHS	INF/01	lesson	English	16	2	1 st	YES	optional
GRAPH THEORY AND ALGORITHMS	INF/01	lesson	English	16	2	1 st	YES	optional
PRINCIPLES OF ELECTRON MICROSCOPY AND APPLICATIONS TO NANOMATERIALS RESEARCH	FIS/03	lesson	English	8	1	1 st	YES	optional

THE ROLE OF INORGANIC SYSTEMS IN FORMULATIONS : CHEMISTRY INSIGHTS AND APPLICATIONS	CHIM/03	lesson	English	8	1	1 st	YES	optional
INTRODUCTION TO MACHINE LEARNING	INF/01	lesson	English	8	1	1 st	YES	optional
ADVANCED THERAPIES, PROGNOSTIC AND DIAGNOSTIC BIOMARKERS IN CANCER DISEASES	BIO/12	lesson	English	8	1	1 st	YES	optional
SOCIAL RESEARCH DESIGN	SPS/07	lesson	English	16	2	1 st	YES	optional
CURRENT DEBATES ON INEQUALITIES	SPS/09	lesson	English	24	3	1 st	YES	optional
ANTROPOLOGIA, SOCIETA' CIVILE E MONDO DEL LAVORO	M-DEA/01	lesson	English	16	2	1 st	YES	optional
METODOLOGIA DELLA RICERCA ETNOGRAFICA	M-DEA/01	lesson	English	32	4	1 st	YES	optional
PEDAGOGICAL ISSUES IN EDUCATIONAL RESEARCH	M-PED/02 M-PED/01 M-PED/03	lesson	English	40	5	1 st	YES	optional
METHODOLOGICAL ISSUES IN EDUCATIONAL RESEARCH	M-PED/01 M-PED/03	lesson	English	32	4	1 st	YES	optional
PLANNING AND CONDUCTION OF A CLINICAL STUDY	MED/41	lesson	English	8	1	1 st	YES	optional
BIOMEDICAL NANOTECHNOLOGIES AND ADVANCED THERAPIES	BIO/10	lesson	English	8	1	1 st	YES	optional
ADVANCED PLASMA PHYSICS: WAVE IN INHOMOGENEOUS PLASMA AND KINETIC DESCRIPTION	PHYS/03	lesson	English	16	2	2 nd	YES	optional
READING OF SCIENTIFIC PAPERS: TOP TIPS FOR A CRITICAL NAVIGATION	BIO/14	lesson	English	8	1	1 st	YES	optional
PATIENT-DERIVED IN VITRO GLIOMA MODELS: FROM PATIENTS TO DISH TO 3D BIOPRINTING TECHNOLOGY.	MED/03	lesson	English	8	1	1 st	YES	optional
THE PRINCIPLE OF 3R IN BIOMEDICAL STUDIES	BIO/17	lesson	English	16	2	1 st	YES	optional
THE POLLUTED BRAIN: THE AIR WE BREATHE, THE BRAIN WE HAVE	BIO/09 - FISILOGIA	lesson	English	8	1	3 rd	YES	optional
COMMUNICATION OF CLIMATE CHANGE	GEO/12	lesson	English	8	1	1 st	YES	optional
IN VIVO IMAGING FOR ANIMAL MODELS OF DISEASE	MED/50	lesson	English	8	1	2 nd	YES	optional
SCANNING AND TRANSMISSION ELECTRON MICROSCOPY, PRINCIPLES AND APPLICATIONS	GEO/06	lesson/ laboratory	English	28	3	1 st	YES	optional
SCANNING AND TRANSMISSION ELECTRON MICROSCOPY, PRINCIPLES AND APPLICATIONS	GEO/06	lesson/ laboratory	English	28	3	2 nd	YES	optional
SUSTAINABLE CHEMICAL PROCESSING TECHNOLOGIES	CHIM/06	lesson	English	16	2	1 st	YES	optional
CRITICAL RAW MATERIALS AND THEIR ENVIRONMENTAL IMPACT	GEO/09	lesson	English	16	2	1 st	YES	optional
MACHINE LEARNING FOR MULTIVARIATE DATA ANALYSIS	CHIM/01	lesson	English	20	2	1 st	YES	optional
MACHINE LEARNING FOR MULTIVARIATE DATA ANALYSIS	CHIM/01	lesson	English	20	2	2 nd	YES	optional

OPEN-SOURCE SOFTWARE FOR SPATIAL DATA ANALYSIS	GEO/04	lesson	English	16	2	1 st	YES	optional
TIME SERIES ANALYSIS OF ENVIRONMENTAL DATA	GEO/05	lesson	English	20	2	1 st	YES	optional
TIME SERIES ANALYSIS OF ENVIRONMENTAL DATA	GEO/05	lesson	English	20	2	2 nd	YES	optional
NMR SPECTROSCOPY APPLICATIONS TO LIGAND-RECEPTOR STUDIES	CHIM/06	lesson/ laboratory	English	20	2	1 st	YES	optional
LEGAL RESEARCH METHOD	IUS/13 IUS/20	lesson	English	24	3	1 st	YES	optional
METHODS AND TECHNIQUES IN URBAN AND REGIONAL STUDIES	SPS/08 SPS/10 M- GGR/01 M-DEA/01	lesson	English	32	4	1 st	YES	optional
URBAN-REGIONAL ISSUES AND POLICY	SPS/10 SPS/07 SPS/08	lesson	English	40	5	1 st	YES	optional
UNDERSTAND THE MOBILE UX DESIGN PROCESS	M-PSI/01	lesson	English	8	1	1 st	YES	optional
BASICS OF VR/AR HUMAN-COMPUTER INTERACTIONS	M-PSI/02 ING/INF/05	lesson	English	8	1	1 st	YES	optional
NEURAL NETWORKS IN COGNITIVE SCIENCE	M-PSI/01	lesson	English	8	1	1 st	YES	optional
PSYCHOMETRIC NETWORK ANALYSIS	M-PSI/03	lesson	English	8	1	1 st	YES	optional
AMBULATORY ASSESSMENT FOR DATA COLLECTION IN NATURAL ENVIRONMENT	M-PSI/08	lesson	English	8	1	1 st	YES	optional
SURVIVAL ANALYSIS METHODS FOR CLINICAL RESEARCH	MEDS-24/A	lesson	English	8	1	1 st	YES	optional
ECONOMIC EVALUATIONS OF HEALTHCARE PROGRAMMES	MED/42	lesson	English	16	2	1 st	YES	optional
SYSTEMATIC REVIEWS	MED/42	lesson	English	8	1	1 st	YES	optional
STATISTICAL METHODS FOR HEALTH SERVICES AND SYSTEMS ASSESSMENT	SECS-S/03 SECS-P/03	lesson	English	16	2	1 st	YES	optional
Total hrs/credits				968	114			