

COURSES IN ENGLISH AT UNITO

Drug Science and Technology

- 1) DRUG DEVELOPMENT: FROM RESEARCH TO MARKET (STF0296)
- 2) ADVANCED DRUG DELIVERY TECHNOLOGIES (STF0044)
- 3) BIOPHYSIC IN DRUG DISCOVERY (STF0279)

Biotechnological and Chemical Sciences in Diagnostics

- 1) ADVANCED MASS SPECTROMETRY (BIO0217)
- 2) ADVANCED MOLECULAR IMMUNOLOGY (BIO0228)
- 3) ADVANCED SPECTROSCOPY AND NANOTECHNOLOGY (BIO0224)
- 4) BASIC AND APPLIED MOLECULAR BIOLOGY (BIO0226)
- 5) BIOANALYTICAL CHEMISTRY (BIO0227)
- 6) CELLULAR BIOLOGY FOR DIAGNOSTIC TECHNOLOGY (BIO0225)
- 7) CLINICAL APPLICATIONS OF DIAGNOSTIC TECHNOLOGIES IN HEMATOLOGY (BIO0248)
- 8) COMPUTATIONAL DRUG DISCOVERY (BIO0220)
- 9) EXTRACELLULAR VESICLES IN DIAGNOSTICS AND PRECISION MEDICINE (BIO0244)
- 10) IN VIVO DIAGNOSTICS: IMAGING TECHNOLOGIES (BIO0229)
- 11) INTERSHIP I (BIO0237)
- 12) ITALIAN FOR INTERNATIONAL STUDENTS BEGINNER LEVEL (LIN0592)
- 13) LABORATORIO: INTERCOMPRESIONE FRA LINGUE AFFINI (LIN0573)
- 14) MATHEMATICAL AND PHYSICAL METHODS AND TOOLS (BIO0230)
- 15) MATHEMATICAL AND PHYSICAL METHODS AND TOOLS (ON LINE) (BIO0243)
- 16) MATHEMATICAL METHODS FOR NATURAL SCIENCES (BIO0247)
- 17) METALS IN MEDICINE AND BIOLOGICAL SYSTEMS (BIO0245)
- 18) MOLECULAR MEDICINAL CHEMISTRY (BIO0186)
- 19) PHYSICAL METHODS AND TOOLS (BIO0230A)
- 20) PHYSICAL METHODS AND TOOLS (ON LINE) (BIO0243B)

Materials Science

- 1) Advanced Diffraction Methods for Applications (CHI0165)
- 2) Analytical chemistry for Materials Science and Materials for Analytical chemistry (CHI0167)
- 3) Computational Methods for the Use of Materials (CHI0162)
- 4) Environmental, Medical and Technological Applications of Minerals and Mineral-Like Materials (CHI0173)
- 5) In-silico prediction of materials properties (CHI0166)
- 6) Internship Laboratory (CHI0164)
- 7) Italian For International Students Beginner Level (LIN0592)
- 8) Italian For International Students Pre-Intermediate Level (LIN0593)
- 9) Machine Learning and its Application to Chemistry and Materials Science (CHI0168)
- 10) Magnetic Atoms and Molecules in material science, chemistry and biochemistry (CHI0141)
- 11) Materials for energy: superconductors, H₂ storage, batteries and thermoelectrics (CHI0169)
- 12) Metals for sustainable manufacturing (CHI0159)
- 13) Organic Materials with laboratory (MFN1275)
- 14) Quantum Effects in Materials: From Theory to Modelling (CHI0153)
- 15) Selection and use of materials (CHI0084)
- 16) Solid state chemistry: from the macro to the nano (CHI0155)

- 17) Solid state physics: opto-electrical properties, microfabrication and devices (CHI0158)
- 18) Structure characterization and modeling (CHI0157)
- 19) Surface phenomena at the micro and nano scale (CHI0156)
- 20) Sustainable Polymers and Composite (CHI0161)
- 21) Synthetic chemistry for smart applications (CHI0154)

Cellular and Molecular Biology

- 1) ADVANCED CELL BIOLOGY AND BIOTECHNOLOGY (SVB0040)
- 2) ADVANCED MOLECULAR BIOLOGY (SVB0041)
- 3) BEHAVIORAL NEUROENDOCRINOLOGY (SVB0056)
- 4) BIOINFORMATICS (SVB0047)
- 5) BIOPHYSICS (SVB0048)
- 6) CANCER GENETICS (SVB0104)
- 7) CELL PHYSIOLOGY (SVB0044)
- 8) CELL PHYSIOLOGY (ON-LINE) (SVB0194)
- 9) CELLULAR NEUROBIOLOGY (SVB0069)
- 10) CELLULAR NEUROBIOLOGY (SVB0055)
- 11) DEVELOPMENTAL NEUROBIOLOGY (SVB0064)
- 12) DEVELOPMENTAL NEUROBIOLOGY (ON-LINE) (SVB0195)
- 13) EXPERIMENTAL NEUROPATHOLOGY (not activated in 2016/17) (SVB0065)
- 14) FORENSIC GENETICS AND LEGAL MEDICINE (SVB0053)
- 15) GENERAL AND MOLECULAR PATHOLOGY (not activated) (SVB0045)
- 16) GENERAL AND MOLECULAR PHARMACOLOGY (SVB0212)
- 17) Good manufacturing practice in a hospital laboratory (SVB0213)
- 18) HUMAN ANATOMY (SVB0060)
- 19) Image Analysis Laboratory (SVB0054)
- 20) IMMUNOPATHOLOGY AND ONCOLOGY (not activated) (SVB0061)
- 21) IMMUNOPATHOLOGY AND PATHOPHYSIOLOGY (SVB0101)
- 22) ITALIAN FOR INTERNATIONAL STUDENTS BEGINNER LEVEL (LIN0592)
- 23) MEDICAL AND CANCER GENETICS (SVB0062)
- 24) MEDICAL GENETICS (SVB0103)
- 25) METABOLIC BIOCHEMISTRY (SVB0042)
- 26) MOLECULAR PHARMACOLOGY (not activated in 2021/22) (SVB0212)
- 27) NEURAL PLASTICITY AND BEHAVIOR CONTROL (SVB0200)
- 28) NEUROANATOMY AND IMAGING (SVB0063)
- 29) Neuropharmacology (SVB0057)
- 30) NEUROPHYSIOLOGY (SVB0102)
- 31) ONCOLOGY AND MOLECULAR PATHOLOGY (SVB0100)
- 32) PARASITOLOGY (not activated in 2020/21)
- 33) STRUCTURE OF MACROMOLECULES AND PROTEOMICS (SVB0049)
- 34) SYSTEMS BIOLOGY (SVB0050)
- 35) Translational Biomedicine (SVB0192)
- 36) VIROLOGY (SVB0046)

Biotechnology for Neuroscience

- 1) DataScience (NEU0264)
- 2) Internship I (NEU0283)
- 3) Molecular and cellular neurobiology (NEU0266)
- 4) Neuroanatomy and neural development (NEU0265)
- 5) Neuropathology and neurogenetics (NEU0267)
- 6) Neurophysiology and neuropharmacology (NEU0268)
- 7) Analysis of movement (NEU0277)
- 8) Bioethics and Philosophy of Mind (NEU0282)
- 9) Brain-machine interfaces (NEU0275)
- 10) Clinical neurosciences I (NEU0269)
- 11) Clinical neurosciences II (NEU0272)
- 12) Computational neuroscience (NEU0278)
- 13) Computer vision (NEU0279)
- 14) Economics and legislation (NEU0271)
- 15) Neuroeconomics (NEU0276)
- 16) Neuroimaging I (NEU0270)
- 17) Neuroimaging II (NEU0274)
- 18) Neurostimulatory techniques (NEU0280)
- 19) Psychological neurosciences (NEU0273)
- 20) Space neuroscience (NEU0281)

Molecular Biotechnology

1. BIOLOGY OF REGENERATION AND DEVELOPMENT (BIO0175 Pds 306-TB)
2. Computational Genomics and Epigenomics (BIO0143A Pds 306-TB)
3. FUNCTIONAL GENOMICS (BIO0167 Pds 306-TB)
4. GENOMICS AND EPIGENOMICS (BIO0143 Pds 306-TB)
5. Genomics and Epigenomics of Gene Regulation (BIO0143B Pds 306-TB)
6. IN VITRO DIAGNOSTICS: MOLECULAR PROFILING OF PROLIFERATIVE PROCESSES (BIO0171 Pds 306-TB)
7. Innovative experimental models in developmental biology and pathology (BIO0175A Pds 306-TB)
8. INTERACTIONS AND GENE NETWORKS (BIO0115 Pds 306-TB)
9. Molecular Dynamics of Cellular Processes (BIO0167A Pds 306-TB)
10. MOLECULAR IMMUNOLOGY (BIO0114 Pds 306-TB)
11. PHYSIOLOGY (BIO0136 Pds 306-TB)
12. STAGE I (BIO0159 Pds GEN)
13. Stem cell biology (BIO0175B Pds 306-TB)
14. The Genetic Basis of Cancer (BIO0167B Pds 306-TB)
15. BIOTECH COMPANY MANAGEMENT (BIO0164 Pds GEN)

16. CHEMISTRY FOR HEALTH SCIENCES (BIO0168 Pds 306-TB)
17. Drug Discovery: basic principles (BIO0170B Pds 306-TB)
18. Mass Spectrometry (BIO0168C Pds 306-TB)
19. Nanomaterials (BIO0168B Pds 306-TB)
20. Pharmacological Biotechnology (BIO0170A Pds 306-TB)
21. PHARMACOLOGY AND DRUG THERAPIES (BIO0170 Pds 306-TB)
22. Supramolecular and Bioinorganic Chemistry (BIO0168A Pds 306-TB)
23. The molecular basis of Neurological therapies (BIO0216A Pds 306-TB)
24. THERAPEUTIC BIOTECHNOLOGY (BIO0216 Pds 306-TB)
25. Therapeutic biotechnology applied to regenerative medicine (BIO0216B Pds 306-TB)
26. ADVANCED MASS SPECTROMETRY (BIO0217 Pds GEN)
27. Biology for sustainability (BIO0249A Pds GEN)
28. Biotechnology for sustainable agrifood system (BIO0249C Pds GEN)
29. BIOTECHNOLOGY IN AND TOWARDS ENVIRONMENTAL SUSTAINABILITY (BIO0249 Pds GEN)
30. CANCER METABOLISM (BIO0185 Pds GEN)
31. COMPUTATIONAL DRUG DISCOVERY (BIO0220 Pds GEN)
32. ENABLING TECHNOLOGIES IN DRUG SYNTHESIS AND PROCESSING (BIO0189 Pds GEN)
33. Environmental sustainability (BIO0249B Pds GEN)
34. GENETICS MODELS OF HUMAN PATHOLOGY (BIO0187 Pds GEN)
35. IMAGE ANALYSIS FOR BIOTECHNOLOGISTS (BIO0178 Pds GEN)
36. IMAGING OF BRAIN DISEASE AND THERAPY (BIO0213 Pds GEN)
37. IN VIVO IMAGING OF CANCER THERAPY (BIO0188 Pds GEN)
38. ITALIAN FOR INTERNATIONAL STUDENTS BEGINNER LEVEL (LIN0592)
39. ITALIAN FOR INTERNATIONAL STUDENTS PRE-INTERMEDIATE LEVEL (LIN0593)
40. METALS IN MEDICINE AND BIOLOGICAL SYSTEMS (BIO0218 Pds GEN)
41. METHODS IN COMPUTATIONAL BIOLOGY (BIO0221 Pds GEN)
42. Methods in Computational Biology I (BIO0221A Pds GEN)
43. Methods in Computational Biology II (BIO0221B Pds GEN)
44. Methods in Computational Biology III (BIO0221C Pds GEN)
45. MOLECULAR MEDICINAL CHEMISTRY (BIO0186 Pds GEN)
46. MOLECULAR PHARMACOLOGY (BIO0192 Pds GEN)
47. PATHOLOGIC BASIS OF DISEASE (BIO0219 Pds GEN)
48. SCIENTIFIC COMMUNICATION (BIO0120 Pds GEN)
49. THE HALLMARKS OF AGEING: MOLECULAR BASIS OF AGEING-ASSOCIATED SYNDROMES (BIO0191)