# UNIVERSITÀ DI PAVIA

## DIPARTIMENTO DI MEDICINA MOLECOLARE

***DEPARTMENT OF MOLECULAR MEDICINE***

**Corso di Laurea/Corso di Laurea Magistrale/Corso di Laurea Magistrale a ciclo unico in**

*Bachelor's Degree/Master's Degree/Single-cycle Master's Degree in*

**Medical and Pharmaceutical Biotechnologies - 04426 (Classe LM-9)**

**PIANO DI STUDIO PER GLI ISCRITTI AL 2° ANNO – DM 270/'04 ANNO ACCADEMICO 2026/2027**

*STUDY PLAN FOR STUDENTS ENROLLED IN 2nd YEAR – DM 270/04 ACADEMIC YEAR 2026/2027*

La/Il sottoscritta/o / *The undersigned*,

Matricola / *Matriculation number* ……

Cognome / *Surname*..... Nome / *Name*……

Nata/o a / *Born in (city)* …… Prov./ *State* …… il / *on* ……

Residente in / *Resident in (city)*…… Prov./ *State* ……

CAP / *Postal code* …… Via o Piazza / *Street name* ……

N. civico / *number* …… Tel. / *Phone* ……

**Il corso di Laurea/Corso di Laurea Magistrale/Corso di Laurea Magistrale a ciclo unico in Medical and Pharmaceutical Biotechnologies**

*Bachelor's Degree/Master's Degree/Single-cycle Master's Degree in Medical and Pharmaceutical Biotechnologies*

**prevede i seguenti percorsi:** */ includes the following tracks:*

**Percorso 1 – Medical**

**Percorso 2 - Pharmaceutical**

Gli studenti che intendono effettuare scelte diverse che si discostano dal modello di piano di studi che segue presenteranno un piano di studi individuale (per il quale è prevista una marca da bollo da euro 16,00 che verrà generata dagli uffici). Maggiori informazioni sono disponibili sulla pagina dedicata https://portale.unipv.it/it/didattica/corsi-di-laurea/studiare/piani-di-studio nella sezione Eccezioni: il piano cartaceo.

*Students who wish to make choices not provided by the following form should submit an individual study plan (in this case administrative offices will generate a fee of €16 for an extra revenue stamp). More information is available at the dedicated webpage: https://portale.unipv.it/it/didattica/corsi-di-laurea/studiare/piani-di-studio in the section "Exceptions: Study plan submitted in paper form".*

APPROVATO NELLA RIUNIONE DEL CONSIGLIO DIDATTICO/CONSIGLIO DI DIPARTIMENTO DEL / *Approved in the session of the Teaching Council/Department Council on* .....

SI DICHIARA LA CONFORMITA' DEL PIANO INDIVIDUALE ALL'ORDINAMENTO DIDATTICO DEL CORSO DI STUDIO IN RELAZIONE ALLA COORTE DI APPARTENENZA DELLO STUDENTE (SCHEDA RAD). / *It is declared that the individual plan follows the course regulations depending on the student's year of enrollment (RAD form).*

FIRMA DEL REFERENTE DEL CORSO DI LAUREA MAGISTRALE/ *Signature of the Program Coordinator* .....

**PERCORSO 1 / *Track 1***

**MEDICAL**

# PRIMO ANNO 2025/2026 – DA 60 A 72 CFU

*First year 2025/2026 – from 60 to 72 cfu*

| **ATTIVITÀ FORMATIVA** *Courses* | **CFU** *Cfu* | **SETTORE SCIENTIFICO DISCIPLINARE** *Scientific Disciplinary Sector* | **TAF / AMBITO** *TAF / Teaching Field* | **TIPO INSEGNAMENTO** *Course Type* |
|---|---|---|---|---|
| **509941 - CELL TECHNOLOGIES I** | **6** | BIOS-10/A *(EX BIO/13)* | *Caratterizzante / Discipline biotecnologiche comuni Specialist / Common biotechnology disciplines* | *Obbligatorio Compulsory* |
| **509944 - CHEMICAL AND BIOCHEMICAL FOUNDATIONS** | **12** | | | *Obbligatorio Compulsory* |
| *509945 - BIOMARKERS & BIOCHEMICAL DIAGNOSIS* | 6 | BIOS-09/A *(EX BIO/12)* | *Caratterizzante / Medicina di laboratorio e diagnostica Specialist / Laboratory medicine and diagnostics* | |
| *509947 - DRUG DISCOVERY & BIOTECHNOLOGICAL DRUGS* | 6 | CHEM-07/A *(EX CHIM/08)* | *Caratterizzante / Discipline farmaceutiche Specialist / Pharmaceutical Disciplines* | |
| **509939 - GENETIC FOUNDATIONS** | **12** | | | *Obbligatorio Compulsory* |
| *509940 - RNA TECHNOLOGIES & PROTEIN ENGINEERING & SYSTEMS BIOLOGY* | 9 | BIOS-08/A *(EX BIO/11)* | *Caratterizzante / Discipline biotecnologiche comuni Specialist / Common biotechnology disciplines* | |
| *509948 - GENES AND GENOMES* | 3 | MEDS-01/A *(EX MED/03)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |
| **509946 - THE ROOTS OF DISEASE I** | **6** | MEDS-01/A *(EX MED/03)* | *Caratterizzante / Medicina di laboratorio e diagnostica Specialist / Laboratory medicine and diagnostics* | *Obbligatorio Compulsory* |
| **509936 - THE ROOTS OF DISEASE II** | **12** | | | *Obbligatorio Compulsory* |
| *500458 - BIOCHEMISTRY* | 6 | BIOS-07/A *(EX BIO/10)* | *Caratterizzante / Discipline biotecnologiche comuni Specialist / Common biotechnology disciplines* | |
| *504494 - PHYSIOLOGY* | 6 | BIOS-06/A *(EX BIO/09)* | *Caratterizzante / Discipline biotecnologiche comuni Specialist / Common biotechnology disciplines* | |
| **509942 - THE ROOTS OF DISEASE III** | **12** | | | *Obbligatorio Compulsory* |

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| *509943 - DEGENERATIVE & CANCER* | 6 | MEDS-02/A *(EX MED/04)* | *Caratterizzante / Discipline biotecnologiche comuni Specialist / Common biotechnology disciplines* | |
| *509949 - METABOLIC* | 3 | MEDS-05/A *(EX MED/09)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |
| *509950 - INFECTIOUS* | 3 | MEDS-10/B *(EX MED/17)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |
| | **0-3** | **FOREIGN STUDENTS WHO ARE NOT IN POSSESSION OF AN ITALIAN LANGUAGE CERTIFICATE AT B1 LEVEL, MUST CHOOSE THE FOLLOWING TEACHING AS AN ALTERNATIVE OF THE 2ND YEAR "PRACTICAL ACTIVITIES"** | | |
| **509536 - ITALIAN LANGUAGE FOR FOREIGN STUDENTS** | **3** | *NN* | *Altro / Ulteriori conoscenze linguistiche Other / Additional language skills* | |
| **ATTIVITA' A LIBERA SCELTA** | **0-9** | **THE STUDENT MUST CHOOSE 9 CREDITS DURING THE 1st OR THE 2nd YEAR, AMONG THE ELECTIVES REPORTED BELOW AND SUGGESTED/INCLUDED IN THE UNIVERSITY'S EDUCATIONAL OFFER, IN COHERENCE WITH THE CHOSEN STUDY PATH** | | |
| **510292 - BIOLOGICAL NMR** | 3 | BIOS-08/A *(EX BIO/11)* | *A scelta dello studente Optional subjects* | |

# SECONDO ANNO 2026/2027 – DA 48 A 60 CFU

*Second year 2026/2027 - from 48 to 60 cfu*

| **ATTIVITÀ FORMATIVA** *Courses* | **CFU** *Cfu* | **SETTORE SCIENTIFICO DISCIPLINARE** *Scientific Disciplinary Sector* | **TAF / AMBITO** *TAF / Teaching Field* | **TIPO INSEGNAMENTO** *Course Type* |
|---|---|---|---|---|
| **509961 - NON PHARMACEUTICAL THERAPIES II - CELL TECHNOLOGIES & CELL THERAPY** | **6** | *BIOS-10/A (EX BIO/13)* | *Caratterizzante / Discipline biotecnologiche comuni Specialist/ Common biotechnology disciplines* | *Obbligatorio Compulsory* |
| **509962 - PHARMACEUTICAL THERAPIES I - DRUGS & DISEASES** | **6** | *BIOS 11-A (EX BIO/14)* | *Caratterizzante / Discipline farmaceutiche Specialist / Pharmaceutical Disciplines* | *Obbligatorio Compulsory* |
| **509963 - FROM BENCH TO BEDSIDE** | **6** | | | *Obbligatorio Compulsory* |
| *510761 - INTELLECTUAL PROPERTY AND REGULATORY AGENCIES* | 3 | *GIUR-02/A(EX IUS/04)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |

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| *511577-PRINCIPLE AND PRACTICE OF CLINICAL RESEARCH* | 3 | *MEDS-05/A (EX MED/09)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |
| **509967 - NON PHARMACEUTICAL THERAPIES I** | **9** | | | *Obbligatorio Compulsory* |
| *509968 - IMMUNOTHERAPY* | 3 | *MEDS-02/A (EX MED/04)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |
| *509969 - VIRUSES & VACCINES* | 3 | *MEDS-03/A (EX MED/07)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |
| *509970 - GENE THERAPY* | 3 | *MEDS-01/A (EX MED/03)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |
| **509965 - TECHNIQUES IN PATHOLOGY** | **3** | *MEDS-04/A (EX MED/08)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | *Obbligatorio Compulsory* |
| | **0-3** | **ITALIAN STUDENTS AND/OR THOSE WHO ARE IN POSSESSION OF AN ITALIAN LANGUAGE CERTIFICATE AT B1 LEVEL, MUST CHOOSE THE FOLLOWING TEACHING AS AN ALTERNATIVE OF THE 1ST YEAR "ITALIAN LANGUAGE FOR FOREIGN STUDENTS"** | | |
| **511396 – PRACTICAL ACTIVITIES** | **3** | *NN* | *Altro / Ulteriori conoscenze linguistiche Other / Additional language skills* | |
| **OPTIONAL TEACHING ACTIVITIES (OTA)** | **0-9** | **THE STUDENT MUST CHOOSE 9 CREDITS DURING THE 1st OR THE 2nd YEAR, AMONG THE ELECTIVES REPORTED BELOW AND SUGGESTED/INCLUDED IN THE UNIVERSITY'S EDUCATIONAL OFFER, IN COHERENCE WITH THE CHOSEN STUDY PATH.** | | |
| **511647 – HUMAN REPRODUCTION** | 3 | *MEDS-21/A (EX MED/40)* | *A scelta dello studente Optional subjects* | |
| **511397 - IMAGING - RADIOMICS AND ARTIFICIAL INTELLIGENCE APPLICATION** | 3 | *MEDS-22/A (EX MED/36)* | *A scelta dello studente Optional subjects* | |
| **511395 - LABORATORY ASPECTS OF RHEUMATIC DISEASES** | 3 | *MEDS-09/C (EX MED/16)* | *A scelta dello studente Optional subjects* | |
| **509639 - LIFESTYLE, NUTRITION AND HEALTH DURING LIFESPAN** | 1 | *MEDS-08/C (EX MED/49)* | *A scelta dello studente Optional subjects* | |

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| **509972 - MEDICAL DEVICES** | 3 | *MEDS-08/B (EX MED/14)* | *A scelta dello studente Optional subjects* | |
| **509978 - MEDICAL STATISTICS** | 3 | *MEDS-24/A (EX MED/01)* | *A scelta dello studente Optional subjects* | |
| **510764 - NANOMEDICINE AND TISSUE ENGINEERING** | 3 | *BIOS-07/A (EX BIO/10)* | *A scelta dello studente Optional subjects* | |
| **511859 – MOLECULAR HEMATOLOGY AND PRECISION MEDICINE** | 3 | *MEDS-09/B (EX MED/15)* | *A scelta dello studente Optional subjects* | |
| **508282 - TECNICHE DI INDAGINE BIOMOLECOLARE NEL LABORATORIO DI GENETICA FORENSE** | 6 | *MEDS-25/A (EX MED/43)* | *A scelta dello studente Optional subjects* | |
| **504976 - TOSSICOLOGIA FORENSE** | 3 | *MEDS-25/A (EX MED/43)* | *A scelta dello studente Optional subjects* | |
| **509979 - TRANSLATIONAL AND MOLECULAR CARDIOLOGY** | 3 | *MEDS-07/B (EX MED/11)* | *A scelta dello studente Optional subjects* | |
| **510795 - TREATMENT AND PREVENTION OF INFECTIOUS DISEASES** | 3 | *MEDS-03/A (EX MED/07)* | *A scelta dello studente Optional subjects* | |
| **510292-BIOLOGICAL NMR** | 3 | *BIOS-08/A (EX BIO/11)* | *A scelta dello studente Optional subjects* | |
| **512088-FUNDAMENTALS OF CANCER BIOCHEMISTRY** | 3 | *BIOS-07/A (EX BIO/10)* | *A scelta dello studente Optional subjects* | |
| **509901 - DISSERTATION** | **18** | *PROFIN_S* | *Lingua/Prova Finale / Per la prova finale Language/Final Examination* | *Obbligatorio Compulsory* |

**THE STUDENT CAN CHOOSE, AMONG THE AFOREMENTIONED COURSES, THOSE SUGGESTED IN THE FOLLOWING LIST OF THE 2 YEAR ACCEDEMIC YEAR 2026/2027 OF MEDICAL AND PHARMACEUTICAL BIOTECHNOLOGIES – PHARMACEUTICAL TRACK - 04426**

| **CODICE** *Code* | **ATTIVITÀ FORMATIVA** *Courses* | **CFU** *CFU* | **SETTORE SCIENTIFICO DISCIPLINARE** *Scientific Disciplinary Sector* | **TAF/AMBITO** *TAF / Teaching Field* | **ANNO CORSO** *Course Year* |
|---|---|---|---|---|---|
| **500190** | **BIOINFORMATICS** | 3 | *IBIO-01/A (EX ING-INF/06)* | *A scelta dello studente Optional Subjects* | 2 |
| **509958** | **BIOPHARMACEUTICS AND FORMULATION DEVELOPMENT** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional Subjects* | 2 |
| **510633** | **COMPUTATIONAL BIOLOGY FOR DRUG DESIGN** | 3 | *CHEM-05/A (EX CHIM/06)* | *A scelta dello studente Optional subjects* | 2 |
| **509659** | **FARMACI E CHIRALITA'** | 3 | *CHEM-07/A (EX CHIM/08)* | *A scelta dello studente Optional subjects* | 2 |
| **511857** | **ADVANCED FORMULATION STRATEGIES IN** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente* | 2 |

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| | **REGENERATIVE MEDICINE** | | | *Optional subjects* | |
| **511593** | **ANALYTICAL TECNIQUS IN FRUG DISCOVERY AND DEVELOPMET** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | 2 |
| **510531** | **NANOTECHNOLOGY - BASED MEDICINES** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | 2 |
| **511858** | **INNOVATION AND FUTURE TRENDS IN COSMETICS** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | 2 |
| **501606** | **VEICOLAZIONE E DIREZIONAMENTO DEI FARMACI** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | 2 |
| **511592** | **CELLS BASED MODEL IN BIOPHARMACEUTICALS** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | 2 |
| **512036** | **COMPOUNDS WITH HEALTHY AND TOXIC ACTION IN FOOD** | 3 | *CHEM-07/B (EX CHIM/10)* | *A scelta dello studente Optional subjects* | 2 |
| **510765** | **PROTEIN DESIGN** | 3 | *BIOS-08/A (EX BIO/11)* | *A scelta dello studente Optional subjects* | 2 |

## EVENTUALI ESAMI IN SOVRANNUMERO (MAX 24 CFU)

*POSSIBLE EXTRA EXAMS (MAX 24 CFU)*

| **ATTIVITÀ FORMATIVA** *Courses* | **CFU** *Cfu* | **SETTORE** *Sector* | **YEAR** *Year* |
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*Catalogo degli insegnamenti*

*Courses Catalogue*

Data / *Date*..... Firma dello studente / *Student's signature* .....

**PERCORSO 2 / *Track 2***

**PHARMACEUTICAL**

# PRIMO ANNO 2025/2026 – DA 60 A 72 CFU

*First year 2025/2026 – from 60 to 72 cfu*

| **ATTIVITÀ FORMATIVA** *Courses* | **CFU** *Cfu* | **SETTORE SCIENTIFICO DISCIPLINARE** *Scientific Disciplinary Sector* | **TAF / AMBITO** *TAF / Teaching Field* | **TIPO INSEGNAMENTO** *Course Type* |
|---|---|---|---|---|
| **509941 - CELL TECHNOLOGIES I** | **6** | BIOS-10/A *(EX BIO/13)* | *Caratterizzante / Discipline biotecnologiche comuni Specialist / Common biotechnology disciplines* | *Obbligatorio Compulsory* |
| **509944 - CHEMICAL AND BIOCHEMICAL FOUNDATIONS** | **12** | | | *Obbligatorio Compulsory* |
| *509945 - BIOMARKERS & BIOCHEMICAL DIAGNOSIS* | 6 | BIOS-09/A *(EX BIO/12)* | *Caratterizzante / Medicina di laboratorio e diagnostica Specialist / Laboratory medicine and diagnostics* | |
| *509947 - DRUG DISCOVERY & BIOTECHNOLOGICAL DRUGS* | 6 | CHEM-07/A *(EX CHIM/08)* | *Caratterizzante / Discipline farmaceutiche Specialist / Pharmaceutical Disciplines* | |
| **509939 - GENETIC FOUNDATIONS** | **12** | | | *Obbligatorio Compulsory* |
| *509940 - RNA TECHNOLOGIES & PROTEIN ENGINEERING & SYSTEMS BIOLOGY* | 9 | BIOS-08/A *(EX BIO/11)* | *Caratterizzante / Discipline biotecnologiche comuni Specialist / Common biotechnology disciplines* | |
| *509948 - GENES AND GENOMES* | 3 | MEDS-01/A *(EX MED/03)* | *Affine/Integrativa / Attività formative affini o integrative* | |
| **509946 - THE ROOTS OF DISEASE I** | **6** | MEDS-01/A *(EX MED/03)* | *Caratterizzante / Medicina di laboratorio e diagnostica Specialist / Laboratory medicine and diagnostics* | *Obbligatorio Compulsory* |
| **509936 - THE ROOTS OF DISEASE II** | **12** | | | *Obbligatorio Compulsory* |
| *500458 - BIOCHEMISTRY* | 6 | BIOS-07/A *(EX BIO/10)* | *Caratterizzante / Discipline biotecnologiche comuni Specialist / Common biotechnology disciplines* | |
| *504494 - PHYSIOLOGY* | 6 | BIOS-06/A *(EX BIO/09)* | *Caratterizzante / Discipline biotecnologiche comuni Specialist / Common biotechnology disciplines* | |
| **509942 - THE ROOTS OF DISEASE III** | **12** | | | *Obbligatorio Compulsory* |
| *509943 - DEGENERATIVE & CANCER* | 6 | MEDS-02/A *(EX MED/04)* | *Caratterizzante / Discipline biotecnologiche comuni* | |

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| | | | *Specialist / Common biotechnology disciplines* | |
| *509949 - METABOLIC* | 3 | MEDS-05/A *(EX MED/09)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |
| *509950 - INFECTIOUS* | 3 | MEDS-10/B *(EX MED/17)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |
| | **0-3** | **FOREIGN STUDENTS WHO ARE NOT IN POSSESSION OF AN ITALIAN LANGUAGE CERTIFICATE AT B1 LEVEL, MUST CHOOSE THE FOLLOWING TEACHING AS AN ALTERNATIVE OF THE 2ND YEAR "PRACTICAL ACTIVITIES"** | | |
| **509536 - ITALIAN LANGUAGE FOR FOREIGN STUDENTS** | **3** | *NN* | *Altro / Ulteriori conoscenze linguistiche Other / Additional language skills* | |
| **OPTIONAL TEACHING ACTIVITIES (OTA)** | **0-9** | **THE STUDENT MUST CHOOSE 9 CREDITS DURING THE 1st OR THE 2nd YEAR, AMONG THE ELECTIVES REPORTED BELOW AND SUGGESTED/INCLUDED IN THE UNIVERSITY'S EDUCATIONAL OFFER, IN COHERENCE WITH THE CHOSEN STUDY PATH** | | |
| **510292 - BIOLOGICAL NMR** | 3 | BIOS-08/A *(EX BIO/11)* | *A scelta dello studente Optional subjects* | |

# SECONDO ANNO 2026/2027 – DA 48 A 60 CFU

*Second year 2026/2027 – from 48 to 60 cfu*

| **ATTIVITÀ FORMATIVA** *Courses* | **CFU** *Cfu* | **SETTORE SCIENTIFICO DISCIPLINARE** *Scientific Disciplinary Sector* | **TAF / AMBITO** *TAF / Teaching Field* | **TIPO INSEGNAMENTO** *Course Type* |
|---|---|---|---|---|
| **509952 - BIOTECHNOLOGICAL DRUGS FORMULATION & REGULATORY ASPECTS** | **6** | *CHEM-08/A (EX CHIM/09)* | *Caratterizzante / Discipline farmaceutiche Specialist / Pharmaceutical Disciplines* | *Obbligatorio Compulsory* |
| **509951 - MEDICINAL CHEMISTRY & DRUG DESIGN** | **6** | *CHEM-07/A (EX CHIM/08)* | *Caratterizzante / Discipline farmaceutiche Specialist / Pharmaceutical Disciplines* | *Obbligatorio Compulsory* |
| **509953 - NANOBIOTECHNOLOGY** | **6** | *CHEM-08/A (EX CHIM/09)* | *Caratterizzante / Discipline farmaceutiche Specialist / Pharmaceutical Disciplines* | *Obbligatorio Compulsory* |
| **510290 - ANALYSIS OF BIOTECHNOLOGICAL DRUGS** | **6** | | | *Obbligatorio Compulsory* |
| *509955 - ANALYTICAL TECHNIQUES FOR BIOTECHNOLOGICAL DRUGS* | 3 | *CHEM-07/A (EX CHIM/08)* | *Affine/Integrativa / Attività formative affini o integrative* | |

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| | | | *Related/Integrative Educational Activities* | |
| *509956 - ANALYSIS AND QUALITY CONTROL OF BIOTECHNOLOGICAL DRUGS* | 3 | *CHEM-07/A (EX CHIM/08)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | |
| **509957 - INDUSTRIAL BIOPROCESSES FOR DRUG PRODUCTIONS** | **6** | *CHEM-07/C (EX CHIM/11)* | *Affine/Integrativa / Attività formative affini o integrative Related/Integrative Educational Activities* | *Obbligatorio Compulsory* |
| | **0-3** | **ITALIAN STUDENTS AND/OR THOSE WHO ARE IN POSSESSION OF AN ITALIAN LANGUAGE CERTIFICATE AT B1 LEVEL, MUST CHOOSE THE FOLLOWING TEACHING AS AN ALTERNATIVE OF THE 1ST YEAR "ITALIAN LANGUAGE FOR FOREIGN STUDENTS"** | | |
| **511396 – PRACTICAL ACTIVITIES** | **3** | *NN* | *Altro / Ulteriori conoscenze linguistiche Other / Additional language skills* | |
| **OPTIONAL TEACHING ACTIVITIES (OTA)** | **0-9** | **THE STUDENT MUST CHOOSE 9 CREDITS DURING THE 1st OR THE 2nd YEAR, AMONG THE ELECTIVES REPORTED BELOW AND SUGGESTED/INCLUDED IN THE UNIVERSITY'S EDUCATIONAL OFFER, IN COHERENCE WITH THE CHOSEN STUDY PATH.** | | |
| **500190 - BIOINFORMATICS** | 3 | *IBIO-01/A (EX ING-INF/06)* | *A scelta dello studente Optional subjects* | |
| **509958 - BIOPHARMACEUTICS AND FORMULATION DEVELOPMENT** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | |
| **510633 - COMPUTATIONAL BIOLOGY FOR DRUG DESIGN** | 3 | *CHEM-05/A (EX CHIM/06)* | *A scelta dello studente Optional subjects* | |
| **509659 - FARMACI E CHIRALITA'** | 3 | *CHEM-07/A (EX CHIM/08)* | *A scelta dello studente Optional subjects* | |
| **511857 – ADVANCED FORMULATION STRATEGIES IN REGENERATIVE MEDICINE** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | |
| **511593 – ANALYTICAL TECNIQUS IN FRUG DISCOVERY AND DEVELOPMET** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | |
| **510531 - NANOTECHNOLOGY - BASED MEDICINES** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | |
| **510765 - PROTEIN DESIGN** | 3 | *BIOS-08/A (EX BIO/11)* | *A scelta dello studente Optional subjects* | |
| **511858 – INNOVATION AND FUTURE TRENDS IN COSMETICS** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | |
| **501606 - VEICOLAZIONE E DIREZIONAMENTO DEI FARMACI** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | |
| **511592- CELLS BASED MODEL IN BIOPHARMACEUTICAL** | 3 | *CHEM-08/A (EX CHIM/09)* | *A scelta dello studente Optional subjects* | |

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| **512036 – COMPUNDS WITH HEALTY AND TOXIC ACTION IN FOOD** | 3 | *CHEM-07/B (EX CHIM/10)* | *A scelta dello studente Optional subjects* | |
| **509901 - DISSERTATION** | **18** | *PROFIN_S* | *Lingua/Prova Finale / Per la prova finale Language/Final Examination* | *Obbligatorio Compulsory* |

| **THE STUDENT CAN CHOOSE, AMONG THE AFOREMENTIONED COURSES, THOSE SUGGESTED IN THE FOLLOWING LIST OF THE 2 YEAR ACCEDEMIC YEAR 2026/2027 OF MEDICAL AND PHARMACEUTICAL BIOTECHNOLOGIES – MEDICAL TRACK - 04426** | | | | | |
|---|---|---|---|---|---|
| **CODICE** *Code* | **ATTIVITÀ FORMATIVA** *Courses* | **CFU** *CFU* | **SETTORE SCIENTIFICO DISCIPLINARE** *Scientific Disciplinary Sector* | **TAF/AMBITO** *TAF / Teaching Field* | **ANNO CORSO** *Course Year* |
| **511647** | **HUMAN REPRODUCTION** | 3 | *MEDS-21/A (EX MED/40)* | *A scelta dello studente Optional subjects* | 2 |
| **511397** | **IMAGING - RADIOMICS AND ARTIFICIAL INTELLIGENCE APPLICATION** | 3 | *MEDS-22/A (EX MED/36)* | *A scelta dello studente Optional subjects* | 2 |
| **511395** | **LABORATORY ASPECTS OF RHEUMATIC DISEASES** | 3 | *MEDS-09/C (EX MED/16)* | *A scelta dello studente Optional subjects* | 2 |
| **509639** | **LIFESTYLE, NUTRITION AND HEALTH DURING LIFESPAN** | 1 | *MEDS-08/C (EX MED/49)* | *A scelta dello studente Optional subjects* | 2 |
| **509972** | **MEDICAL DEVICES** | 3 | *MEDS-08/B (EX MED/14)* | *A scelta dello studente Optional subjects* | 2 |
| **509978** | **MEDICAL STATISTICS** | 3 | *MEDS-24/A (EX MED/01)* | *A scelta dello studente Optional subjects* | 2 |
| **511859** | **MOLECULAR HEMATOLOGY AND PRECISION MEDICINE** | 3 | *MEDS-09/B (EX MED/15)* | *A scelta dello studente Optional subjects* | 2 |
| **508282** | **TECNICHE DI INDAGINE BIOMOLECOLARE NEL LABORATORIO DI GENETICA FORENSE** | 6 | *MEDS-25/A (EX MED/43)* | *A scelta dello studente Optional subjects* | 2 |
| **504976** | **TOSSICOLOGIA FORENSE** | 3 | *MEDS-25/A (EX MED/43)* | *A scelta dello studente Optional subjects* | 2 |
| **509979** | **TRANSLATIONAL AND MOLECULAR CARDIOLOGY** | 3 | *MEDS-07/B (EX MED/11)* | *A scelta dello studente Optional subjects* | 2 |

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| **510795** | **TREATMENT AND PREVENTION OF INFECTIOUS DISEASES** | 3 | *MEDS-03/A (EX MED/07)* | *A scelta dello studente Optional subjects* | 2 |
| **510764** | **NANOMEDIICNE AND TISSUE ENGINEERING** | 3 | *BIOS-07/A (EX BIO/10)* | *A scelta dello studente Optional subjects* | 2 |
| **510288** | **FUNDAMENTALS OF CANCER BIOCHEMISTRY** | 3 | *BIOS-07/A (EX BIO/10)* | *A scelta dello studente Optional subjects* | 2 |
| **510292** | **BIOLOGICAL NMR** | 3 | *BIOS-08/A (EX BIO/11)* | *A scelta dello studente Optional subjects* | 2 |

## EVENTUALI ESAMI IN SOVRANNUMERO (MAX 24 CFU)

*POSSIBLE EXTRA EXAMS (MAX 24 CFU)*

| **ATTIVITÀ FORMATIVA** *Courses* | **CFU** *Cfu* | **SETTORE** *Sector* | **YEAR** *Year* |
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*Catalogo degli insegnamenti*

*Courses Catalogue*

Data / *Date*..... Firma dello studente / *Student's signature* .....