

Piano di studi CdL in DATA ANALYTICSa.a. 2022-2023

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| Università degli Studi della Campania "Luigi Vanvitelli" |
| ATTIVITÀ FORMATIVE PER ANNO – coorte 2022-2023 |
| Dipartimento: Dipartimento di Matematica e Fisica (DMF) |
| Corso di Studio: B34 - DATA ANALYTICS |
| Ordinamento: B34-19 ANNO: 2022/2023 |
| Regolamento: B34-19-21 ANNO: 2022/2023 |
| CFU Totali: 180 |

| Sector | Courses | Semester ECTS | |
|------------|----------------------------------|---------------|-----------|
| ING-INF/05 | Fundamentals of computer science | 1 | 6 |
| SECS-P/01 | Economics | 1 | 6 |
| MAT/03 | Linear algebra | 1 | 6 |
| SECS-S/01 | Statistics | 1 | 9 |
| ING-INF/05 | Fundamentals of programming | 2 | 6 |
| MAT/05 | Analysis | 2 | 9 |
| MAT/07 | Probability theory | 2 | 6 |
| SPS/07 | Methodology of social research | 2 | 6 |
| | Free | 2 | 6 |
| | | | 60 |

| II Year (60 ECTS) | | Semester | |
|---------------------------|---|----------|---|
| SECS-S/06 | Financial Mathematics | 1 | 6 |
| SECS-S/01 | Inferential Statistics | 1 | 9 |
| SECS-S/01 - Statistica | Advanced data analysis and visualization | 1 | 9 |
| SECS-S/02 | Experimental Research Designs | 1 | 6 |
| L-LIN/12 | English for Mathematics, Statistics and Computer Science | 1 | 6 |
| MAT/08 | Numerical methods for data analysis | 2 | 6 |
| SECS-P/05 | Econometrics <i>or</i> | 2 | 6 |
| SECS-P/08 | Business intelligence | 2 | 6 |
| SECS-S/01 | Statistical Learning | 2 | 6 |
| M-PSI/03 | Psychometrics | 2 | 6 |

*Optional:
Select 1 out of 2*

III Year (60 ECTS)

Semester

| | | | |
|------------|---|------|-----------|
| ING-INF/05 | Databases and Information Systems | 1 | 6 |
| SECS-S/01 | Data mining and big data | 1, 2 | 12 |
| ING-INF/05 | Computer Systems Modelling and Semantic Web | 1 | 6 |
| ING-INF/05 | Object oriented programming | 1 | 6 |
| MAT/09 | Operational research | 2 | 6 |
| SECS-P/01 | Behavioural Economics | 1 | |
| L-LIN/04 | French | 2 | 6 |
| | Free | | 6 |
| | Stage | 2 | 8 |
| | Thesis examination | 2 | 4 |
| | | | 60 |

*Optional:
Select 1 out of 2*

PIANO DI STUDI 3° ANNO – PERCORSO INTERNAZIONALE

Terzo anno di corso – presso il Dipartimento di Informatica dell’Institut Galilée, Université Sorbonne Paris Nord
Per gli studenti iscritti al CdS in Data Analytics provenienti dall’Università della Campania “Luigi Vanvitelli”

| I Sem. | | Année | ECTS |
|-------------------|--|-------|-----------|
| Math/Informatique | Probabilités-statistiques et applications à l'analyse de données | 3 | 4 |
| Informatique | Internet des objets | 3 | 4 |
| Informatique | Théorie des langages | 3 | 6 |
| Informatique | Structure de données | 3 | 5 |
| Informatique | Spécification algébrique et test logiciel | 3 | 5 |
| Informatique | Bases de données | 3 | 6 |
| | | | 30 |

| II Sem. | | | |
|-----------------------|---|---|-----------|
| Informatique | Web sémantique | 3 | 4 |
| Informatique | Programmation web | 3 | 4 |
| Informatique | Modélisation des systèmes informatiques | 3 | 4 |
| Informatique | Conception d’algorithmes | 3 | 4 |
| Maths ou Informatique | UE au choix licence mathématiques ou informatique | 3 | 4 |
| Français | Français | 3 | 4 |
| Stage et projet | Stage | 3 | 6 |
| | | | 30 |

I corsi la cui denominazione è riportata in francese, saranno tenuti in prevalenza in lingua inglese.
Il materiale didattico sarà garantito in inglese.

Terzo anno di corso – presso il Dipartimento di Matematica e Fisica dell’Università della Campania “Luigi Vanvitelli”

Per gli studenti iscritti alla *Licence en Informatique* provenienti dall’Université Paris 13

I semestre

| | | | |
|------------------|--|----------|-----------|
| Computer Science | Databases and Information Systems | 3 | 6 |
| Statistics | Data Mining et Big Data (1 st part) | 3 | 6 |
| Economics | Econometrics | 3 | 6 |
| Statistics | Experimental Research Designs | 3 | 6 |
| Psychometrics | Psychometrics | 3 | 6 |
| | | | 30 |

II semestre

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|-----------------------------------|--|---|---|
| Mathematics/ Operational research | Operational research | 3 | 6 |
| Computer Science | Object oriented programming | 3 | 6 |
| Statistique/Data Analysis | Data Mining et Big Data (2 nd part) | 3 | 6 |
| Stage and project | Stage | 3 | 8 |
| Final report | Final report | 3 | 4 |