

## **Appendix 1: Study Plan 2023/2024**

**Double Degree UniBS – Université of Strasbourg**

*«Laurea Magistrale in Analytics and Data Science for Economics and Management/  
Data Science pour l'Economie et l'Entreprise du Futur»*

NOVEMBRE 2023

## SECTION I: Percorso interamente in ITALIA

### I anno

<i>Quadrimestre</i>	<i>SSD</i>	<i>Insegnamento</i>	<i>N. ore</i>	<i>CFU</i>	<i>CFU tot</i>
I	SECS-P/07	Accounting and marketing (Accounting Analytics)	40	6	
I	INF/01	Coding for data science and analytics	60	9	
I	SECS-S/01	Statistical Learning	60	9	
					24
II	SECS-P/08	Accounting and marketing (Digital marketing)	40	6	
II	SECS-P/01	Causal inference and impact evaluation	40	6	
II	ING-INF/05	Database Management	40	6	
II	IUS/01	Law and Data / Protezione dei dati e contratti elettronici	40	6	
					24
Insegnamenti a scelta libera dello studente					12
					<b>60</b>

### II anno

<i>Quadrimestre</i>	<i>SSD</i>	<i>Insegnamento</i>	<i>N. ore</i>	<i>CFU</i>	<i>CFU tot</i>
I	SECS-S/06	Analytics and decision methods (Decision theory and multi-criteria analysis)	40	6	
I	INF/01	Artificial Intelligence	60	9	
I	SECS-S/01	Statistics for Machine Learning	60	9	
					24
II	MAT/09	Analytics and decision methods (Optimization methods in business analytics)	40	6	
II	SECS-P/01	Economics of information and data	40	6	
II		Altre attività Tirocinio o Laboratori: - Analytics and data science lab (4 CFU) - Cybersecurity lab (4 CFU) - C1 English (4 CFU) - Italiano B2 (4 CFU) - Social network analysis lab (4 CFU) - Spatial data lab (4 CFU)		8	
Tesi di laurea				16	
					<b>36</b>
					<b>60</b>

## SECTION II: Studente UNIBS che va in Francia

### I anno

Quadrimestre	SSD	Insegnamento	N. ore	CFU	CFU tot
I	SECS-P/07	Accounting and marketing (Accounting Analytics)	40	6	
I	INF/01	Coding for data science and analytics	60	9	
I	SECS-S/01	Statistical Learning	60	9	
					24
II	SECS-P/08	Accounting and marketing (Digital marketing)	40	6	
II	SECS-P/01	Causal inference and impact evaluation	40	6	
II	ING-INF/05	Database Management	40	6	
II	IUS/01	Law and Data / Protezione dei dati e contratti elettronici	40	6	
					24
		Insegnamenti a scelta libera dello studente			12
					<b>60</b>

### II anno

Quadrimestre	SSD	Insegnamento	N. ore	CFU	CFU tot
I (in Francia)	INF/01	Advanced Programming		3	
I (in Francia)	SECS-S/01	Data visualization		3	
I (in Francia)	INF/01	Machine Learning		9	
I (in Francia)	SECS-P/01	Economics of innovation / digital economy		3	
I (in Francia)	SECS-P/01	Economics of innovation		3	
I (in Francia)	SECS-P/07	Management		6	
I (in Francia)	IUS/01	Ethics and Law		3	
					30
II	MAT/09	Optimization methods in business analytics	40	6	
II		Tirocinio o Laboratori		8	
II		Tesi di laurea		16	
					30
					<b>60</b>

## SECTION III: Studente UniStra che va in Italia

### I anno

<i>Quadrimestre</i>	<i>SSD</i>	<i>Insegnamento</i>	<i>N. ore</i>	<i>CFU</i>	<i>CFU tot</i>
I	SECS-P/02	Politiques économiques, activité et emploi	45	6	
I	SECS-P/02	Innovation et croissance	45	6	
I	SECS-P/01	Comportements et incitations	45	6	
	SECS-P/06	Firmes et marchés	45	6	
I	SECS-P/01	Econométrie appliquée I	60	6	
I	INF/01	Option: Cartographie des sources de données et indicateurs	12	3	
					33
II	SECS-P/01	Conduite de projet	45	6	
II	SECS-S/01	Econométrie appliquée II	45	6	
	SECS-S/01	Econométrie avancée	45	6	
II	INF/01	Techniques de programmation	45	6	
II	INF/01	Infrastructures de données	45	6	
II					30
					<b>63</b>

### II anno

<i>Quadrimestre</i>	<i>SSD</i>	<i>Insegnamento</i>	<i>N. ore</i>	<i>CFU</i>	<i>CFU tot</i>
I (in Italia)	INF/01	Artificial Intelligence	60	9	
I (in Italia)	SECS-S/01	Statistical Learning	60	9	
I (in Italia)	SECS-S/01	Statistics for Machine Learning	60	9	
I (in Italia)	SECS-P/07	Accounting Analytics	40	6	
					33
II		Stage / Memoire de recherche		30	
					30
					<b>63</b>

## SECTION IV: Percorso interamente in FRANCIA

### I anno

<i>Quadrimestre</i>	<i>SSD</i>	<i>Insegnamento</i>	<i>N. ore</i>	<i>CFU</i>	<i>CFU tot</i>
I	SECS-P/02	Politiques économiques, activité et emploi	45	6	
I	SECS-P/02	Innovation et croissance	45	6	
I	SECS-P/01	Comportements et incitations	45	6	
	SECS-P/06	Firmes et marches	45	6	
I	SECS-P/01	Econométrie appliquée I	60	6	
I	INF/01	Option: Cartographie des sources de données et indicateurs	12	3	
					<b>33</b>
II	SECS-P/01	Conduite de projet	45	6	
II	SECS-S/01	Econométrie appliquée II	45	6	
	SECS-S/01	Econométrie avancée	45	6	
II	INF/01	Techniques de programmation	45	6	
II	INF/01	Infrastructures de données	45	6	
II					<b>30</b>
					<b>63</b>

### II anno

<i>Quadrimestre</i>	<i>SSD</i>	<i>Insegnamento</i>	<i>N. ore</i>	<i>CFU</i>	<i>CFU tot</i>
I	INF/01	Advanced Programming		3	
I	SECS-S/01	Data visualization		3	
I	INF/01	Machine Learning		9	
I	SECS-P/01	Economics of innovation / digital economy		3	
I	SECS-P/01	Economics of innovation		3	
I	SECS-P/07	Big Data and Management		6	
I	IUS/01	Ethics and Law		3	
					<b>30</b>
II		Stage / Memoire de recherche		30	
					<b>30</b>
					<b>60</b>