


STUDY PLAN

	ESTP PARIS - MAJOR IN BUILDING CONSTRUCTION 2021-2022 YEAR 1*
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*equivalent last year of Bachelor's Degree

Semester 1 (equivalent semester 5 of higher education)	Hours per semester	ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	201,50	11
Materials Science (Polymers, Wood, Composites, Steel, Ceramics)	16	1
Engineering Mathematics 1	30	2
Solid & Vibration Mechanics	22,50	1
Continuum Mechanics	33,50	2
Numerical Programming and Data Analysis	25	2
Scientific Project	19	1
In-depth review of mathematics	55,50	2
UE - ENGINEERING SCIENCES AND METHODS	126,50	10
Construction Materials 1	27,50	2
Baseload Electricity	27,50	2
Basic Energetics	26,50	2
Building Information Modeling (BIM)	23	2
Introduction to Land Surveying	22	2
UE - MANAGEMENT AND SOCIETY	63	5
Climate Change & Energy Transition	15	1
Business Law	15	1
Business Economics	10	1
Project Management 1	12,50	1
Urban Sociology	10,50	1
UE - SOFT SKILLS ET LANGUAGES	99	4
English 1	30	2
Leadership and Communication 1 (BL)	15,50	1
Soft Skills Portfolio 1	4	1
ESTP Paris Technical conferences	3	0
Foreign language (Optional)	30	0
Foreign language (Optional)	17	0
	490	30

Semester 2 (equivalent semester 6 of higher education)	Hours per semester	ECTS
UE - DIGITAL AND SCIENTIFIC TOOLS	134	9
Numerical analysis	28,50	2
Engineering mathematics 2	32	2
Numerical modeling project	19	2
Strength of materials 1	39,50	2
Signal digital processing	15	1
UE - ENGINEERING SCIENCES AND METHODS	106,50	8
Performance of concrete materials	13	1
Soil mechanics	26	2
Fluid mechanics and applied hydraulics	30,50	2
Introduction to research	15,50	1
Introduction to legislation (Eurocodes)	8	1
Roads and main networks	13,50	1
UE - SPECIALISATION SCIENCES AND METHODS	71	4
Technical building design	42	2
Architecture - conception - coordination 1	29	2
UE - MANAGEMENT AND SOCIETY	65	5
General Accounting	15,50	1
Construction law	15	1
Ethics management	15,50	1
Health & safety 1 (BL)	9	1
Design Thinking and Innovation	10	1
UE - SOFT SKILLS ET LANGUAGES	90	4
English 2	30	2
Leadership and Communication 2 (BL)	8	1
Soft Skills Portfolio 2	2,50	1
ESTP Paris Technical conferences	3	0
Foreign language (Optional)	30	0
Foreign language (Optional)	16,50	0
	466,5	30

Total Year 1	Hours	ECTS
	956,50	60

*equivalent first year of Master's Degree

Semester 1 (equivalent semester 7 of higher education)	Hours per semester	ECTS
UE - ENGINEERING SCIENCES AND METHODS	131	10
Reinforced Concrete 1	32,50	2
Geotechnics 1	29	2
Finite elements methods	25,50	2
Research project	11,50	2
Metal construction 1	32,50	2
UE - ENGINEERING TECHNIQUES AND METHODS	139	10
Architecture - conception - coordination 2	34	3
Technical Building Design 2	33,50	2
Strength of Materials 2	40,50	3
Building Renovation and Reclassification	16	1
Prestressed concrete	15	1
UE - MANAGEMENT AND SOCIETY	73,50	5
Business Game	15	1
Project management	15,50	1
Urban planning and construction law 2	15	1
Analytical Accounting	15,50	1
Pricing study - methodology	12,50	1
UE - SOFT SKILLS ET LANGUAGES	76,5	5
English 3	23	2
Leadership and Communication 3 (BL)	8	1
Soft Skills Portfolio 3	3,50	1
1st year training period report	0	1
ESTP Paris Technical conferences	3	0
Foreign language (Optional)	22,50	0
Foreign language (Optional)	16,50	0
	420,0	30

Semester 2 (equivalent semester 8 of higher education)	Hours per semester	ECTS
UE - ENGINEERING TECHNIQUES AND METHODS	116	8
Geographic Information Systems SIG/CIM	28,50	2
Building Information Modeling (BIM)	12,50	1
Smart Grid/Smart Cities/Smart Building	18,50	1
Engineering project	19	2
Ecological and Environmental Engineering	20	1
Acoustic	17,50	1
UE - ENGINEERING TECHNIQUES AND METHODS	188	13
Geotechnics 2	21	2
Structural calculations (earthquake resistance)	26,50	2
Climate Engineering	18	1
Planning	15	1
Construction site technology	16,50	1
Reinforced Concrete 2	43	3
Metal construction project 2	37	2
Performance of concrete materials 2	11	1
UE - MANAGEMENT AND COMMUNICATION	58	5
Quality management	13	1
Public and Private Contracts	10,50	1
Hackathon ESTP Paris	15,0	1
Intercultural management	10,5	1
Health & safety 2 (BL)	9	1
UE - SOFT SKILLS ET LANGUAGES	91	4
English 4	30	2
Leadership and Communication 4 (BL)	8	1
Soft Skills Portfolio 4	3,50	1
ESTP Paris Technical conferences	3	0
Foreign language (Optional)	30	0
Foreign language (Optional)	16,50	0
	453	30
Total Year 2	Hours	ECTS
	873	60

*equivalent last year of Master's Degree

Semester 1 (equivalent semester 9 of higher education)	Hours per semester	ECTS
UE - ENGINEERING TECHNIQUES AND METHODS	82	6
Wood Construction	23,50	2
Advanced Structural Calculation	19	1
Pathology os structures	17,50	1
Building life cycle analysis	12	1
Construction Risk Management	10	1
UE - MANAGEMENT AND SOCIETY	40,5	4
Ethics management	7	1
Management Techniques	15	1
Management Control - Finance Analysis	18,50	2
UE- SOFT SKILLS ET LANGUAGES	78,0	5
Leadership and Communication 5 (BL)	6,50	1
English 5	30	2
ESTP Paris Technical conferences	3	0
Soft Skills Portfolio 5	2,50	1
2nd year training period report	0	1
Foreign language (Optional)	19,50	0
Foreign language (Optional)	16,50	0
UE - OPTION	200	15
One minor to choose from :	200	15
•Landscape and Real Estate Planning		
•Engineering in an International context		
•Structures		
•Sustainable Buildings and cities		
•Building Information Modeling (BIM)		
•Constructability and Project Culture		
•Civil engineering of complex and nuclear structures		
•Roads and Civil Engineering Structures		
•Real Estate Development		
•Underground Infrastructures and Works		
•Engineering and Energy Efficiency		
•Engineer-Designer (ESTP Campus Troyes)		
•Construction 4.0 (ESTP Campus Troyes)		
•Smart City (ESTP Campus Dijon)		
•Entrepreneurship		
	400,50	30
Semester 2 (equivalent semester 10 of higher education)	Hours per semester	ECTS
UE - ENGINEERING PROJECT		30
6-month training period (+ report and oral defense)	n/a	30
		30
Total Year 3	Hours	ECTS
	n/a	60