

APPENDIX 1 - Plan of studies for ZHAW students

1st year for ZHAW students at ZHAW

Semesters 1 to 2 (September to July)	ECTS
All modules in each theme (9 ECTS per theme) <ul style="list-style-type: none"> – Theme 1: Sustainability and Resources – Theme 2: Technology and Design – Theme 3: Businesses and Organizations – Theme 4: Politics, Law and Transformation – Theme 5: Behavior and Behavior Change 	45
One specialization cluster (12 ECTS per cluster in semester 2) <ul style="list-style-type: none"> – Cluster 1: Circularity in Product Design – Cluster 2: Regional Cycles and Resources – Cluster 3: Business Economics, Labels and Standards – Cluster 4: Government and Stakeholder Management 	12
Case Study 1	3
Total Credits Semesters 1 and 2	60

2nd year for ZHAW students at UPM

Students can choose one of the two specialties.

Semester 3, Specialty in Consumo y Gestión Sostenible del Capital Natural (in Spanish) (September to January)	ECTS
Gestión de residuos y materias primas secundarias.	4
Reutilización de aguas.	3
Contaminación y biorremediación.	3
Gestión sostenible del capital natural.	3
Restauración ambiental.	3
Conservación de la biodiversidad.	3
Energía, recursos naturales y cambio climático.	4
Mecanismos financieros de adaptación al cambio climático.	3
Instrumentos y herramientas para el control del cambio climático.	4
Total Credits Semester 3	30

Semester 4 (February to August)	ECTS
Experiencias Circulares	3
Prácticas Externas	12
Trabajo Fin de Máster* (co-supervised)	15
Total Credits Semester 4	30

*As the Trabajo Fin de Máster (Master's Thesis) will be co-supervised by professors from UPM and ZHAW, it will always be written in English.

Or

Semester 3, Specialty in Minerals and Construction Products (in English) (September to January)	ECTS
Fundamentals of Urban Mining	4
Alternative Energy in Industrial Processes	3
Energy efficiency in industrial processes	3
Water resource recovery in minerals and construction products	2
Recycled materials for sustainable building construction	4
Characterisation and Management of Construction Products	4
Training for the professional digital competence	6
Technological Innovation and Sustainable Entrepreneurship	2
Technology Watch	2
Total Credits Semester 3	30

Semester 4 (February to August)	ECTS
Circular Experiences	3
Internship	12
Master's Thesis (co-supervised)	15
Total Credits Semester 4	30

Total Credits Semesters 3 and 4	60
--	-----------

Total Credits Double Degree for ZHAW students	120
--	------------