



**DOUBLE DEGREE WITH THE UNIVERSITY OF APPLIED SCIENCES AND ARTS  
NORTHWESTERN SWITZERLAND (FHNW)**

**STUDY PROGRAMME**

**1st year: UNIBO**

<b>Autumn Semester</b>	<b>Spring Semester</b>
INTRODUCTION TO NUMERICAL METHODS (6 ECTS) RESOURCES AND RECYCLING M (9 ECTS)  CIRCULAR ECONOMY: BASICS AND IMPLICATIONS (6 ECTS)  LAB OF ENVIRONMENTAL ENGINEERING AND ENERGY ECONOMICS (3 ECTS)	APPLIED GEOPHYSICS (3 ECTS)  BIOTECHNOLOGY FOR THE SUSTAINABLE RECLAMATION OF CONTAMINATED LANDS AND WATERS M (6 ECTS)  INDUSTRIAL ECOLOGY M I.C. (9 ECTS)  CLIMATE CHANGE ADAPTATION (6 ECTS)  GLOBAL ENVIRONMENTAL LAW (6 ECTS)  POLITICAL ECONOMY OF INDUSTRY AND DEVELOPMENT (6 ECTS)
<b>60 ECTS</b>	

**2<sup>nd</sup> year: TWO OPTIONS**



**TWO SEMESTERS MOBILITY**  
Thesis @ FHNW

**ONE SEMESTER MOBILITY**  
Thesis @ UNIBO

**OPTION 1: TWO SEMESTERS MOBILITY (preferable)**

<b>Autumn Semester offer at FHNW</b>	<b>Spring Semester</b>
Process Technology for Industrial Pollution Control (3 Ects) Remediation (3 Ects) Valorization of Biomass Waste and Side Streams (3 Ects) Life Cycle Assessment (3 Ects) Sustainable Development Natural Resource Management (3 Ects) Modelling of Complex Systems (3 Ects) Handling and Visualizing data (3 Ects) Design and Analysis of Experiments (3 Ects) Modelling and Exploration of Multivariate Data (3 Ects) Ecological Infrastructure in Landscapes (3 Ects) Journal Club Environmental and Natural Resource Sciences (3 Ects)	Master's Thesis (40 ECTS)
<b>21 ECTS have to be gained</b>	<b>40 ECTS</b>

**OPTION 2: ONE SEMESTER MOBILITY**

<b>Autumn Semester offer at FHNW</b>	<b>Spring Semester at UNIBO</b>
Process Technology for Industrial Pollution Control (3 Ects) Remediation (3 Ects) Valorization of Biomass Waste and Side Streams (3 Ects) Life Cycle Assessment (3 Ects) Sustainable Development Natural Resource Management (3 Ects) Modelling of Complex Systems (3 Ects) Handling and Visualizing data (3 Ects) Design and Analysis of Experiments (3 Ects) Modelling and Exploration of Multivariate Data (3 Ects) Ecological Infrastructure in Landscapes (3 Ects) Journal Club Environmental and Natural Resource Sciences (3 Ects) Electives (max 6 ECTS)	Electives (6 ECTS) Internship (6 ECTS) Internship for the preparation of the final examination (12 ECTS) Final examination (6 ECTS)
<b>30 ECTS have to be gained</b>	<b>30 ECTS</b>