Semester 1 — 30 Credit Points

Module BIW-MA-AC-O-01 **Building Materials**	**8 cr**	mandatory
Module BIW-MA-AC-O-02 **Continuum Mechanics, Tensor Calculus**	**8 cr**	
Module BIW-MA-AC-O-03 **Energy Methods, Finite Element Method**	**8 cr**	
Module BIW-MA-AC-O-04 **Numerical Methods**	**5 cr**	
Module BIW-MA-AC-O-05 **Mentoring Program for Study Skills and Methodological Skills**	**1 cr**	

Semester 2 — 29 Credit Points

Module BIW-MA-AC-E-01 **Design of Reinforced Concrete Structures**	**5 cr**	Module BIW-MA-AC-E-07 **Building Physics**	**5 cr**	select **25 (5x5) cr** — select 5 from BIW-MA-AC-E-01 to BIW-MA-AC-E-12
Module BIW-MA-AC-E-02 **Form Finding of Lightweight Structures**	**5 cr**	Module BIW-MA-AC-E-08 **Multiscale Mechanics**	**5 cr**	
Module BIW-MA-AC-E-03 **Timber and Lightweight Structures**	**5 cr**	Module BIW-MA-AC-E-09 **Computational Dynamics**	**5 cr**	
Module BIW-MA-AC-E-04 **Constitutive Modeling of Soils**	**5 cr**	Module BIW-MA-AC-E-10 **Modeling and Simulation in Pavement Engineering**	**5 cr**	
Module BIW-MA-AC-E-05 **Structural Use of Glass**	**5 cr**	Module BIW-MA-AC-E-11 **Bridge Design**	**5 cr**	
Module BIW-MA-AC-E-06 **Safety Concepts**	**5 cr**	Module BIW-MA-AC-E-12 **Zero Carbon Building Design using BIM and Digital Twins**	**5 cr**	
Module BIW MA-AC-O-05 **Mentoring Program for Study Skills and Methodological Skills**	**4 cr**			

Semester 3 — 31 Credit Points

Module BIW MA-AC-O-06 **Building Information Modeling: Methods and Concepts**	**5 cr**	mandatory
Module BIW MA-AC-O-07 **Applications of Computational Engineering Methods**	**5 cr**	
Module BIW MA-AC-O-08 **ACCESS Application-Based Science Project**	**15 cr**	
Module BIW MA-AC-O-08 **ACCESS Application-Based Science Project Presentation**	**6 cr**	

Semester 4 — 30 Credit Points

Master's Thesis	**25 cr**
+	
Colloquium	**5 cr**

Master of Science