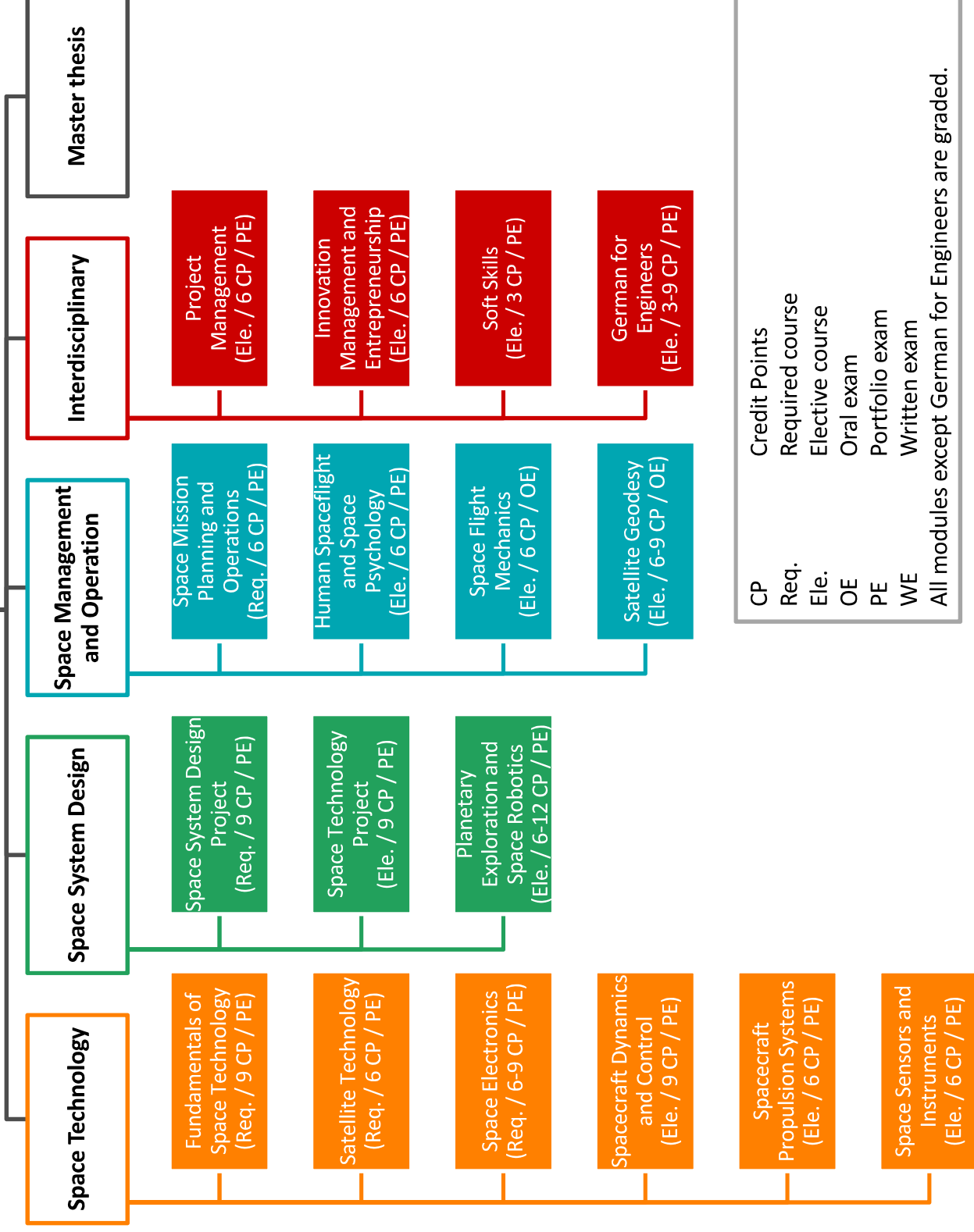


# Space Engineering study programme at TU Berlin

## Module overview



CP

Credit Points

Req.

Required course

Ele.

Elective course

OE

Oral exam

PE

Portfolio exam

WE

Written exam

All modules except German for Engineers are graded.

Modules	Credit Points	Courses	Req./ Ele.	Sem.1 CP	Sem. 2 CP	Sem. 3 CP	Sem. 4 CP
<b>A Space Technology</b>	min. 27						
Fundamentals of Space Technology	9	Fundamentals of Space Technology (1) Fundamentals of Space Technology (2)	Req.	6	3		
Satellite Technology	6	Satellite Technology	Req.	6			
Space Electronics	6-9	Space Electronics (1) Space Electronics (2) Radiation Workshop	Req. Ele.	3	3 3		
Spacecraft Dynamics and Control	9	Spacecraft Dynamics and Control (1) Spacecraft Dynamics and Control (2)	Ele.	3	6		
Spacecraft Propulsion Systems	6	Spacecraft Propulsion Systems	Ele.		6		
Space Sensors and Instruments	6	Space Sensors and Instruments	Ele.		6		
<b>B Space System Design</b>	min. 15						
Space System Design Project	9	Space System Design Project	Req.		9		
Space Technology Project	9	Space Technology Project	Ele.			9	
Planetary Exploration and Space Robotics	6-12	Planetary Exploration and Space Robotics 1 Planetary Exploration and Space Robotics 2	Ele. Ele.		6		
<b>C Space Operations</b>	min. 12						
Space Mission Planning and Operations	6	Space Mission Planning and Operations	Req.	6			
Human Spaceflight	6	Technical Aspects of Human Spaceflight Space Psychology	Ele.	3	3		
Space Flight Mechanics	6	Space Flight Mechanics	Ele.			6	
Satellite Geodesy	6-9	Introduction to Satellite Geodesy Satellite Geodesy (main course)	Ele. Ele.	3			
<b>D Interdisciplinary</b>	min. 6						
Project Management	6	Project Management	Ele.	6	6		
Innovation Management and Entrepreneurship	6	Innovation Management and Entrepreneurship	Ele.	6	6		
Soft Skills	3	Soft Skills	Ele.	3	3		
German for Engineers	3-9	German for Engineers	Ele.	3	3	3	
<b>Total (modules only)</b>	<b>90</b>			54	48	48	0
<b>Master thesis</b>	<b>30</b>						30
<b>Total</b>	<b>120</b>			54	48	48	30

CP Credit Points  
Req. Required course  
Ele. Elective course  
SPW Semester periods per week  
Sem. Semester  
min. minimum

The study programme can be also completed on a part-time basis.