

Appendix 1a - Mandatory Module and Examination Plan for World Track

Earth and Environmental Sciences – World Track																	
Matriculation Fall 2018																	
Program-Specific Modules					Type	Status ¹	Semester	Credits	Jacobs Track Modules (General Education)		Type	Status ¹	Semester	Credits			
Year 1 - CHOICE								45						20			
<i>Take the mandatory CHOICE module listed below, this is a requirement for the EES program.</i>																	
CH04-GenEES	Module: General Earth and Environmental Sciences						m	15	JT-ME-MethodsMath	Module: Methods / Mathematics		m	7,5				
CH04-210121	Introduction to Earth and Environmental Science						Lecture	m	1	5	JT-ME-120106	Applied Calculus I		Lecture	m	1	2,5
CH04-210103	DataLab: Introduction to Earth System Data						Lecture	m	1	2,5	JT-ME-120107	Applied Calculus II		Lecture	m	1	2,5
CH04-210123	The Earth-Ocean System and its Evolution						Lecture	m	2	5	JT-ME-120101	Mathematical Concepts in the Sciences		Lecture	m	2	2,5
CH04-210111	FieldLab: Earth and Environmental Systems and their Chemistry						Lab	m	2	2,5	JT-SK-Skills	Module: Skills		m	2,5		
	Module: CHOICE (own selection)						e	1/2	30		JT-SK-990103	Scientific and Experimental Skills		Lecture	m	1	2,5
<i>Students take two further CHOICE modules from those offered for all other study programs. ²</i>										JT-TA-TriArea	Module: Triangle Area		m	5			
											Take two courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³		me	1/2	5		
										JT-LA-Language	Module: Language		m	5			
											Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language		Seminar	me	1/2	5	
										CA01-CarAdv	Career Advising⁴						
Year 2 - CORE								45						20			
<i>Take all three modules or replace one with a CORE module from a different study program. ²</i>																	
CO10-FundEES	Module: Fundamental Earth and Environmental Science						me	15	JT-ME-MethodsMath	Module: Methods / Mathematics		m	7,5				
CO10-210201	Volcanism and Metamorphism						Lecture	m	3	2,5		Take three Methods (mandatory) elective courses (2,5 ECTS each). ²		Lecture	me	3/4	7,5
CO10-210203	Sedimentology						Lecture	m	3	2,5							
CO10-210206	Structural Geology						Lecture	m	3	2,5							
CO10-210204	Marine Environments						Lecture	m	4	2,5							
CO10-210133	Introduction to Mineralogy						Lecture	m	4	2,5							
CO10-041202	Fieldtrip Environmental Changes and Challenges in Northwestern German Excursion						m	4	2,5								
CO11-EOEnvChem	Module: Earth, Ocean, and Environmental GeoChemistry						me	15	JT-TA-TriArea	Module: Triangle Area		m	7,5				
CO11-210241	Geochemistry of Igneous and Aqueous Systems						Lecture	m	3	2,5		Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³		me	3/4	7,5	
CO11-210302	Environmental Geochemistry						Lecture	m	3	2,5							
CO11-210362	Applied Geochemistry						Lecture	m	4	2,5							
CO11-210301	Isotope Geochemistry						Lecture	m	4	2,5							
CO11-210373	Mineral Resources						Lecture	m	4	2,5							
CO11-210202	Fieldtrip Volcanism and Hydrochemistry in the Eifel, Germany						Excursion	m	4	2,5							
CO12-EOEnvPhys	Module: Earth, Ocean, and Environmental GeoPhysics						me	15	JT-LA-Language	Module: Language		m	5				
CO12-210223	Marine and Applied Geophysics						Lecture	m	3	2,5		Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language		Seminar	me	3/4	5
CO12-210225	Physics of System Earth						Lecture	m	3	5							
CO12-210214	Physical Oceanography						Lecture	m	3	2,5							
CO12-210213	Earth System Monitoring and Remote Sensing						Lecture	m	4	2,5							
CO12-210251	Oceanographic Excursion / Research Cruise North Sea						Excursion	m	4	2,5	CA01-CarAdv	Career Advising⁴					
Year 3 - CAREER								45						5			
CA02 / CA03	Module: Internship / Study Abroad						m	5	20	JT-SK-Skills	Module: Skills		m	2,5			
CA07-EES	Module: Project / Thesis EES						m	15	JT-SK-990104	Advanced Scientific and Experimental Skills		Lecture	m	6	2,5		
CA07-210304	Project EES						m	6	5	JT-TA-TriArea	Module: Triangle Area		m	2,5			
CA07-210305	Thesis EES						m	6	10		Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³		me	6	2,5		
CAS-WT-EES	Module: Specialization Area EES						m	10	CA01-CarAdv	Career Advising⁴							
	Take 10 ECTS of specialization courses ²						me	5/6	10								
Total ECTS															180		

¹ Status (m = mandatory, e = elective, me = mandatory elective), ² For a full listing of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the CampusNet online catalogue and / or the module handbook (on our website)

³ You are required to take six Triangle Area courses in total. Select two from each of the three triangle areas (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT)

⁴ Mandatory component of the Jacobs University's Counseling and Advising Scheme

Appendix 1b - Mandatory Module and Examination Plan for Campus Track

Earth and Environmental Sciences – Campus Track																		
Matriculation Fall 2018																		
Program-Specific Modules					Jacobs Track Modules (General Education)													
Year 1 - CHOICE	Type	Status ¹	Semester	Credits	Year 1 - CHOICE	Type	Status ¹	Semester	Credits									
45					20													
<i>Take the mandatory CHOICE module listed below, this is a requirement for the EES program.</i>																		
CH04-GenEES	Module: General Earth and Environmental Sciences			m	15	JT-ME-MethodsMath	Module: Methods / Mathematics			m	7,5							
CH04-210121	Introduction to Earth and Environmental Science	Lecture	m	1	5	JT-ME-120106	Applied Calculus I	Lecture	m	1	2,5							
CH04-210103	DataLab: Introduction to Earth System Data	Lecture	m	1	2,5	JT-ME-120107	Applied Calculus II	Lecture	m	1	2,5							
CH04-210123	The Earth-Ocean System and its Evolution	Lecture	m	2	5	JT-ME-120101	Mathematical Concepts in the Sciences	Lecture	m	2	2,5							
CH04-210111	FieldLab: Earth and Environmental Systems and their Chemistry	Lab	m	2	2,5	JT-SK-Skills	Module: Skills			m	2,5							
Module: CHOICE (own selection)					e	1/2	30	JT-SK-990103	Scientific and Experimental Skills			Lecture	m	1	2,5			
<i>Students take two further CHOICE modules from those offered for all other study programs. ²</i>																		
Year 2 - CORE					45					20								
<i>Take all three modules or replace one with a CORE module from a different study program. ²</i>																		
CO10-FundEES	Module: Fundamental Earth and Environmental Sciences			me	15	JT-ME-MethodsMath	Module: Methods / Mathematics			m	7,5							
CO10-210201	Volcanism and Metamorphism	Lecture	m	3	2,5	<i>Take three Methods (mandatory) elective courses (2,5 ECTS each). ²</i>					Lecture	me	3/4	7,5				
CO10-210203	Sedimentology	Lecture	m	3	2,5	JT-TA-TriArea	Module: Triangle Area			m	7,5							
CO10-210206	Structural Geology	Lecture	m	3	2,5	<i>Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³</i>					me	3/4	7,5					
CO10-210204	Marine Environments	Lecture	m	4	2,5	JT-LA-Language	Module: Language			m	5							
CO10-210133	Introduction to Mineralogy	Lecture	m	4	2,5	<i>Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language</i>					Seminar	me	3/4	5				
CO10-041202	Fieldtrip Environmental Changes and Challenges in Northwestern Germany	Excursion	m	4	2,5	CA01-CarAdv	Career Advising⁴											
CO11-EOEnvChem	Module: Earth, Ocean, and Environmental GeoChemistry			me	15													
CO11-210241	Geochemistry of Igneous and Aqueous Systems	Lecture	m	3	2,5													
CO11-210302	Environmental Geochemistry	Lecture	m	3	2,5													
CO11-210362	Applied Geochemistry	Lecture	m	4	2,5													
CO11-210301	Isotope Geochemistry	Lecture	m	4	2,5													
CO11-210373	Mineral Resources	Lecture	m	4	2,5													
CO11-210202	Fieldtrip Volcanism and Hydrochemistry in the Eifel, Germany	Excursion	m	4	2,5													
CO12-EOEnvPhys	Module: Earth, Ocean, and Environmental GeoPhysics			me	15													
CO12-210223	Marine and Applied Geophysics	Lecture	m	3	2,5													
CO12-210225	Physics of System Earth	Lecture	m	3	5													
CO12-210214	Physical Oceanography	Lecture	m	3	2,5													
CO12-210213	Earth System Monitoring and Remote Sensing	Lecture	m	4	2,5													
CO12-210251	Oceanographic Excursion / Research Cruise North Sea	Excursion	m	4	2,5													
Year 3 - CAREER					45					5								
COXX	Module: Additional (4th) CORE module			m	5/6	15	JT-SK-Skills	Module: Skills			m	2,5						
CA07-EES						Module: Project / Thesis EES			m	15	JT-SK-990104	Advanced Scientific and Experimental Skills			Lecture	m	6	2,5
CA07-210304	Project EES	m	5	5	JT-TA-TriArea						Module: Triangle Area			m	2,5			
CA07-210305	Thesis EES	m	6	10	<i>Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³</i>					me	5	2,5						
CAS-CT-EES						Module: Specialization Area EES			m	15	CA01-CarAdv					Career Advising⁴		
<i>Take 15 ECTS of specialization courses ²</i>						me	5/6	15										
Total ECTS										180								

¹ Status (m = mandatory, e = elective, me = mandatory elective). ² For a full listing of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the CampusNet online catalogue and / or the module handbook (on our website).

³ You are required to take six Triangle Area courses in total. Select two from each of the three triangle areas (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT).

⁴ Mandatory component of the Jacobs University's Counseling and Advising Scheme.