

Hamburg University of Applied Sciences- Germany CI875

Students should check with the study abroad advisor and/or their academic advisor to determine which classes are offered during the semester in which they plan to study abroad. Classes listed below show transfer equivalencies, however the classes are not always offered during every semester. Students should meet with an academic advisor to determine how the classes would be applied toward their WSU degree.

***This is not a full list of classes offered at Hamburg University of Applied Sciences. Students who find classes that they plan to take that are not listed here should first consult the study abroad advisor to determine how to have those classes evaluated if needed.**

***Students are generally only able to take courses from one subject area. Please consult the WSU Study Abroad Office if interested in courses from more than one subject.**

***Grades of A-E (or 0.7-4.0) will transfer back for credit from this university. Grades lower than this will not receive transfer credit.*

Course at Hamburg University (offered in English)

Transfers to WSU as:

Aeronautical Engineering (Berliner Tor Campus)

AE 101C	Aerodynamics II (5 ECTS)	AE 524 Aerodynamics II (3 or 4 hrs)
ENGR 101A	Aircraft Design (4 ECTS)	ENGT 4000 or AE 4000 Tech Elective (3 or 4 hrs)
ENGR 101X	Aircraft Engines (5 ECTS)	AE 502 Aerospace Propulsion I (3 or 4 hrs)
ENGR 101N	Aircraft Systems (4 ECTS)	AE 4000 Tech Elective (3 or 4 hrs)
ENGR 101G	Architecture of the Aircraft Cabin (5 ECTS)	AE 4000 Tech Elective (3 or 4 hrs)
ENGR 101O	Electrical Cabin Systems (6 ECTS)	AE 4000 Tech Elective (3 or 4 hrs)
ENGR 101Y	Engineering/Industry Design Team Project	ENGR 2000 (3 or 4 hrs) (not approved for ME major requirements)
ENGR 101F	Mechanical Aircraft Cabin System (6 ECTS)	AE 4000 Tech Elective (3 or 4 hrs)
AE 101A	Seminar (Fundamentals of Thermodynamics) (2 ECTS)	AE 2000 (2 hrs) (not approved for AE major requirements)

Automotive Engineering (Berliner Tor Campus)

ENGR 101Z	Automotive Engineering Research Project (8 ECTS*)	ENGR 2000 (3 or 4 hrs) (not approved for ME major requirements)
ME 101D	Drive Train Design (5 ECTS)	ME 4000 Mechanical Elective (3 or 4 hrs) (approved for ME major requirements)
ENGR 101Y	Engineering/Industry Design Team Project	ENGR 2000 (3 or 4 hrs) (not approved for ME major requirements)
ME 101G	Finite Element Methods (FEM) (5 ECTS)	ME 749 Applications of Finite Element Methods in Mechanical Engineering (3 or 4 hrs)
ME 101A	Introduction to Body in White Design (5 ECTS)	ME 4000 Tech Elective (3 or 4 hrs)
ME 101B	Introduction to Commercial Vehicle Design (5 ECTS)	ME 4000 Tech Elective (3 or 4 hrs)
ME 101C	Introduction to Vehicle Dynamics (5 ECTS)	ME 4000 Tech Elective (3 or 4 hrs)

Biotech and Environment (Bergedorf Campus)

BIOL 101B	Applied Hydrobiology and Ecotoxicology (5 ECTS)	BIOL 2000 Elective (3 or 4 hrs) (approved for BIOL major requirements)
GEOL 101A	Downstream Processing of Natural Products (9 ECTS)	GEOL 2000 Elective (7 hrs) (not approved for GEOL major requirements)
ME 101H	Feedback Control Systems (5 ECTS)	ME 659 Mechanical Control Systems (3 or 4 hrs)
HRM 101A	International Human Resource Management (5 ECTS)	HRM 4000 (3 or 4 hrs)
ME 101E + ME 101F	Renewable Energies-Fuel Cells + Renewable Energies-Photovoltaic Applications	ME 4000 Tech Elective
HS 101H	Pharmaceutical Toxicology (5 ECTS)	HS 2000 (3 or 4 hrs) (not approved for HS major requirements)
BME 101A	Project Management (for engineers) (5 ECTS)	BME 4000 Tech Elective (3 or 4 hrs)

Computer Science (Berliner Tor Campus)

CS 101K	Data Science (6 ECTS)	CS 4000 Tech Elective (3 or 4 hrs)
CS 101M	Data Science and Artificial Intelligence (6 ECTS)	CS 4000 Tech Elective (3 or 4 hrs)
CS 101P	Cyber-Physical and Intelligent Systems (6 ECTS)	CS 4000 Tech Elective (3 or 4 hrs)

CS 101O	Open Communication Systems (6 ECTS)	CS 4000 Tech Elective (3 or 4 hrs)
CS 101L	Smart Sensing (RLab2) (6 ECTS)	CS 4000 Tech Elective (3 or 4 hrs)
CS 101N	Systems and Software Engineering (6 ECTS)	CS 580 Introduction to Software Engineering (3 or 4 hrs)
ENGR 101U	Modeling and Simulation Research Project (6 ECTS)	CS 4000 Tech Elective (3 or 4 hrs)

Industrial Engineering (Bergedorf Campus)

EE 101D	Electrical Engineering I (5 ECTS)	EE 2000 (3 or 4 hrs)
EE 101E	Electrical Engineering II (5 ECTS)	EE 2000 (3 or 4 hrs)
EE 101A + EE 101B + EE 101C	Embedded Systems I-Basics (2 ECTS) + Embedded Systems II-Software Engineering (2 ECTS) + Embedded Systems III-Specialization in Embedded Systems (3 ECTS)	EE 4000 Tech Elective (3 or 4 hrs)
HRM 101A	International Human Resource Management (5 ECTS)	HRM 4000 (3 or 4 hrs)
IME 101A	Materials Science II (3 ECTS)	IME 2000 (2 hrs) (not approved for IME major requirements)
IME 101B	Materials Science III (2 ECTS)	IME 2000 (2 hrs) (not approved for IME major requirements)

Information Engineering (Berliner Tor Campus)

CS 101J	Algorithms and Data Structures (6 ECTS)	CS 400 Data Structures (4 hrs)
EE 101L	Bussystems and Sensors (6 ECTS)	ECE 4000 Tech Elective (3 or 4 hrs)
ENGR 101S	Databases (6 ECTS)	CS 665 Introduction to Databases (3 or 4 hrs)
CS 101H	Digital Circuits (6 ECTS)	ECE 194 Intro to Digital Design (4 hrs)
EE 101N	Digital Communication Systems (6 ECTS)	ECE 4000 Tech Elective (3 or 4 hrs)
EE101M	Digital Signal Processing (6 ECTS)	EE 383 Signals and Systems (3 or 4 hrs)
EE 101K	Digital Systems (6 ECTS)	ECE 2000 Tech Elective (3 or 4 hrs) (EE only)
EE 101D	Electrical Engineering I (6 ECTS)	EE 2000 Tech Elective (3 or 4 hrs)
EE 101G	Electrical Engineering II (6 ECTS)	EE 2000 (3 or 4 hrs)
EE 101F	Electronics I (6 ECTS)	EE 492 Electronic Circuits I (4 hrs)
BUS 101K	Intercultural Competence (5 ECTS)	IB 4000 (3 hrs)

ENGR 101P	Operating Systems (6 ECTS)	CS 540 Operating Systems (3 or 4 hrs)
MATH 101A	Mathematics II (8 ECTS)	MATH 242 Calculus I (6 hrs)
EE 101J	Microcontrollers (7 ECTS)	ECE 2000 (5.5 hrs) (not approved for ECE majors/minors requirements)
EE 101H	Signals and Systems I (6 ECTS)	EE 383 Signals and Systems (3 or 4 hrs)
EE 101I	Signals and Systems II (6 ECTS)	EE 383 Signals and Systems (3 or 4 hrs)
CS 101I	Software Construction I (7 ECTS)	CS 211 Introduction to Programming (4 hrs)
ENGR 101R	Software Construction II (6 ECTS)	CS 697B Intermediate Java (3 or 4 hrs)
CS 101G	Software Engineering (6 ECTS)	CS 580 Introduction to Software Engineering (3 or 4 hrs)

International Business (Berliner Tor Campus)

BUS 101J	Country Studies/Country Analysis (3 ECTS)	IB 4000 (2 hrs)
IB 101E	Intercultural and Interdisciplinary Case Studies (5 ECTS)	IB 4000 (3 or 4 hrs)
BUS 101K	Intercultural Competence (5 ECTS)	IB 4000 (3 or 4 hrs)
IB 101D	International Accounting and Taxation (5 ECTS)	IB 4000 (3 or 4 hrs)
BUS 101A	International Business Law (5 ECTS)	IB 602 Legal Environment of Intl Business (3 or 4 hrs)
IB 101B	International Capital Markets (5 ECTS)	IB 4000 (3 or 4 hrs)
BUS 101B	International Economics 2 (5 ECTS)	IB 561 International Economics/Business (3 or 4 hrs)
IB 101C	International Management (5 ECTS)	IB 4000 (3 or 4 hrs)
BUS 101F	International Marketing (5 ECTS)	IB 601 International Marketing (3 or 4 hrs)
IB 101A	International Organization and Cooperation (5 ECTS)	IB 4000 (4 hrs)

Mechanical Engineering (Berliner Tor Campus)

ENGR 101K	Finite Elements (6 ECTS)	ME 639 Finite Elements Methods (3 or 4 hrs)
ENGR 101I	Machine Cutting Technology (5 ECTS)	IME 258 Manufacturing Methods & Materials I (3 or 4 hrs)
ENGR 101M	Systematic Product Development (5 ECTS)	ENGT 4000 Tech Elective (3 or 4 hrs)
ENGR 101J	Technical Thermodynamics I (5 ECTS)	AE 4000 AE Tech Elective (3 or 4 hrs) or ME 398 Thermodynamics I (3 or 4 hrs)

ENGR 101L	Thermal Energy Systems (5 ECTS)	ENGT 4000 Tech Elective (3 or 4 hrs) or ME 602 Engineering for the Environment (3 or 4 hrs)
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Media and Film (Finkenau Campus)

MART 101B	Camera Acting Project – Short Cut (5 ECTS)	MART 353 Video Storytelling (3 or 4 hrs)
MART 101C	Perception (5 ECTS)	MART 4000 Media Arts Elective (3 or 4 hrs)
MART 101D	Practice Dramaturgy (5 ECTS)	MART 4000 Media Arts Elective (3 or 4 hrs)
MART 101E	Sound Design (5 ECTS)	MART 4000 Media Arts Elective (3 or 4 hrs)
MART 101G	Video or Audio Project (8 ECTS)	MART 399 Media Arts Practicum (3 or 4 hrs)
MART 101H	Video Technology & Production (5 ECTS)	MART 351 Principles of Video Production (3 or 4 hrs)

Nutrition and Health (Bergedorf Campus)

BUS 101M	Consumer Behaviour (5 ECTS)	MKT 2000 (3 or 4 hrs)
HS 101D	Food Marketing (5 ECTS)	HS 2000 (3 or 4 hrs)
GERM 101A	German Food & Culture (5 ECTS)	GERM 2000 (3 or 4 hrs)
HRM 101A	International Human Resource Management (5 ECTS)	HRM 4000 (3 or 4 hrs)
MKT 101A	Market Research (5 ECTS)	MKT 403 Marketing Research (3 or 4 hrs)
PHS 101A	Public Health Project (5 ECTS)	PHS 2000 (3 or 4 hrs)
HS 101E	Project Management Seminar (5 ECTS)	HS 2000 (3 or 4 hrs) (approved for HS major requirements)
IME 101A	Scientific Ergonomics with Lab (5 ECTS)	IME 2000 (3 or 4 hrs) (not approved for IME requirements)
HPS 101A	Sports Nutrition (5 ECTS)	HPS 313 Exercise and Sport Nutrition (3 or 4 hrs)

Social Work (Berliner Tor Campus)

SCWK 101O	Diversity Training for Education, Social Work and Health Care (3 ECTS)	SCWK 304 Social Diversity and Ethics (3 hrs)
SCWK 101J	Strength Based Interventions with Children and Families (3 ECTS)	SCWK 611T Creative Techniques and Skills in Practice with Adolescent Girls (2 hrs)

SCWK 101K	Team Work and Team Building (3 ECTS)	SCWK 2000 (3 hrs) (not approved for SCWK major/minor requirements)
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