

HM Hochschule Munchen University of Applied Sciences													
*Note: These classes are NOT pre-approved. Each student must submit major/support substitution petitions to receive transfer credit*													
PARTNER SCHOOL COURSES	AERO	BMED	CE	ENVE	CPE	EE	GENE	IE/MFGE	MATE	ME	CSC	SE	CAL POLY EQUIVALENT
Artificial Intelligence			X		X								Tech Elective, CPE Tech Elect or CPE 480*
Simulation Practice with MATLAB/SIMULINK	X				X	X		X		X	X		Tech Elective
Fluid Mechanics	"	X	X	"		"	X	"	"	X			ME 341
Thermodynamics	"	X	X	"			X	X	"	X			ME 302
Material Science/Quality Control & Sustainable Product Engr	X	X	X		X	"	X	X	X	X			MATE 210
3-D Printing and Design	"	X			X	"	"	"	"	X	"		Technical Elective
Solar & Wind Power	"		"	"	X	"	X			X			Tech Elect
Advanced Analog Circuit Design					X	X				X			EE 308/348, EE 321/361, Tech elective
Electronics		X				X	"	X		X			EE 321, EE 361
Power Electronics						X	"	X		X			EE 321/361, EE 410
Microcomputer		X			X	X				X			EE/CPE 329* and ME Mechatronics elective
International Economics						X	"						Tech Elective
Microcontrollers for Everyone					X	X							Tech Elective,
Design of Integrated Circuits					"	X							Tech Elective
Data Communication								"			X	X	Tech Elective
Quantum Information												X	Tech Elective
Advanced Embedded Software Development					"						"	X	Tech Elective
Quality Management and Applied Statistics		X						"		"			Tech Elective
Digital Circuit Design		X			"	"							Tech Elective
Statistics and Design of Experiments		X						"					Tech Elect
Product Management & Technical Sales		X						"					IME 401
Aircraft Subsystems	X												AERO Tech Elective
The Branding Code							X						GENE Tech Elective
Consulting Skills							X						GENE Tech Elective
Remote Sensing Cartography			"	X									Tech Elective
Intercultural Aspects in Project Mgt				X	X			"			X		Tech Elective, CPE External Tech El.
Management Decision Making Supported by Data Analysis				X				"					Tech Elective
Plant Engineering			X							X			Tech Elective
Finite Elements for Plates	"		X					"		"			Tech Elective
Special Geotechnical Works			X	"									Tech Elective
Fatigue & Fracture	"	X	X	"						X			Tech Elective
Entrepreneurship	"	X	X	"	"	X	"	"	"	"	"	"	Science Elective
Computer Network I					X	"					X	"	CPE 464*, Tech Elective
Concepts of Modering Programming Languages					X						X	X	Tech Elective
Game Design					X						X	X	Tech Elective
Network Management					X						"	"	CPE 464 or Tech Elect
Computer Networks II					X						"	"	CPE 464*
Compiler Construction					X						"	"	CPE 464
Symmetric Matrices					X	X					X	"	Math/Science Elective, Support Elective
Network Security					X						X	"	Tech Elect

Operating Systems I					X						X	X	CPE Tech Elect or CPE 453*
Mobile Application Development					X						X	X	Tech Elective
Event Driven Systems					X						"	"	Tech Electives
Applied Social Sciences-Integration as Challenge for Social Work in Europe					X								Tech Elect
Lean Six Sigma Foundation								X					IE Tech Elect
Engineering of Sustainable Energy Systems	"	"	X	X		"	"	X	"	X			Tech Elective
Green Logistics and Sustainability			X	X				X		X			Tech Electives or IME 417*
Management Across Borders & Cultures								X		"			Tech Elect
Renewable Energies	"	"	"	"		"	"	X		X			Tech Elect
Starting a New Enterprise								X					BUS 310
Marketing								X					BUS 346*
Lean Six Sigma Foundation Ergonomics & Practical Training								X					IME 319
Marketing Project								X					BUS 346
Dynamics for Engineers		X								X			ME 326*, Tech Elect
Fluid Mechanics & Advanced Fluid Mechanics							X			X			ME 341 & ME 347^
Thermal System Design										X			ME 448 (formerly ME 420)
Heat and Mass Transfer*							X			X			ME 343 (formerly ME 350)*
Control Systems for Automotive & Aerospace Engineers							"			X			ME 418 or ME 419 (formerly ME 422)
Advanced Fluid Mechanics										X			ME Tech Elective
Sustainable Product Engineering & Design Project			"	"			"			X			ME 506
Design & Function of Automobiles							"			X			ME Tech Elective
Modeling & Testing of Products & Processes							"			X			ME Tech Elective
Innovation and Entrepreneurship for Green Technologies	"		"	"			"			X			ME Tech Elective
Innovation & Entrepreneurship and Automotive Mechantronics	"						"			X			ME Tech Elective
Multibody Dynamics	"						"			X			ME General Concentration Tech Elective
Tool Design and Manufacture	"	X					"	"		X			ME Tech Elective
Vehicle Dynamics							"			X			ME Tech Elective
Aerodynamic Principles for Automotive Design	"						"			X			ME Tech Elective
Internal Combustion Engines	"						"			X			ME Tech Elective
Automotive Mechanics							"			X			ME Tech Elective, Mechatronics Elective
Finite Element Method	"		"	"			"			X			ME Tech Elective
Project Management								"		X			ME Tech Elective
Lightweight Structures	"		"				"			X			ME Tech Elective
Flight Mechanics	"									X			ME Tech Elective
Innovation Management								"		X			ME Tech Elective
Composite Materials									"	X			ME Tech Elective
M1080 Machine Elements I~										X			ME 328~
M3010 Machine Elements II~										X			ME 329~
Mechanical Components II*~										X			ME 329~

\* Needs to be combined with an extra units to satisfy unit requirement of course

~ Course only offered in German not in English

^ Must be taken together for group substitution. Note Advanced Fluid Mechanics alone will not substitute for ME 347.

" Can possibly be substituted for equivalent requirement in concentration or electives for major