

**International Engineering-BME-German**
**November 2013**

<b>First Semester</b>	<b>FIRST YEAR</b>			<b>NOTES</b>
	ENGR 19500	1	Engr Seminar	
	ENGR 19600	3	Intro to Engineering	
	BIOL K101	5	Concepts of Biol I	
	GER G131*	4	First-Year German I	
	MATH 16500	4	Calculus/AnalGeo I	
	ENGR 19700	2	Intro Prog. Concepts	
	Total:	19		
<b>Second Semester</b>	<b>FIRST YEAR</b>			
	CHEM C105	3	Prin. of Chemistry I	
	CHEM C125	2	Exp. Chemistry I	Summer option
	MATH 16600	4	Calc/AnalGeom II	prereq for Math 261
	MATH 17100	3	Multidimen. Math	prereq for Math 261
	PHYS 15200	4	Mechanics	
	GER G132*	4	First-Year German II	
	ENGR 29700	1	Matlab	Summer option
	Total:	21		
<b>Third Semester</b>	<b>SECOND YEAR</b>			
	CHEM C106	3	Prin. Chemistry II	Summer option
	PHYS 25100	5	Elec, Heat, Optics	
	MATH 26100	4	Multivar Calculus	
	BME 24100	4	Biomechanics	
	GER G203*	3	Sec-Year German I	
	Total:	19		
<b>Fourth Semester</b>	<b>SECOND YEAR</b>			
	MATH 26600	3	Differential Eqns	
	ENG W131	3	Elem Comp I	Summer option
	BME 22200	4	Biomeasurements	
	GER G204*	3	Sec-Year German II	
	BIOL K324	3	Cell Biology	
	BIOL K325	2	Cell Biology Lab	only offered in Spring
	Total:	18		
<b>Fifth Semester</b>	<b>THIRD YEAR</b>			
	BME 33100	3	Biosignals & Syst	
	BME 33400	3	Biomed. Computing	
	BME 38100	3	Implantable Matls/ Biol Response	
	BME 38300	1	Problems in Implant Matls/Biol Resp	
	COMM R110	3	Speech Comm	
	GER 300-level	3	300-German Elective	
	Total:	16		

<b>Sixth Semester</b>	<b>THIRD YEAR</b>			
	BME 32200	3	Prob & Statistics	
	BME 35200	3	Tissue Behavior /Prop	
	BME 35400	1	Problems in TBP	
	Humanities	3	Huma Elective	
	Social Science	3	Soc Sci Elective	
	Ger 300-level	3	300-GermanElective	
	Total:	16		
<b>Seventh Semester</b>	<b>FOURTH YEAR</b>			
<b>INTERNSHIP/</b>	BME/Sci/Tech	2	Tech Elective	
	GER G493	6	Internship Projects	
	Total:	8		
<b>Eighth Semester</b>	<b>FOURTH YEAR</b>			
	BME Gateway Elective	3	Depth Area elective	
	CHEM C341	3	Organic Chemistry	
	CHEM C343	2	Organic Chem Lab	
	TCM 36000	2	Comm in Engr	
	Humanities	3	Huma Elective	
	BME 40200	1	BME Seminar	
	BME project	1	For tech elective	must be cohesive w/2-credit intern. experience
	Total:	15		
<b>Ninth Semester</b>	<b>FIFTH YEAR</b>			
	BME Sci/Tech Elective	3	Depth Area elective	
	BME 49100	3	Biomedical Design I	
	BME 41100	3	Quant Physiology	
	BME 44200	3	Biofluid Mechanics	
	GER 400-level	3	400-level German	
	Soc Sci/Huma	3	SoSci/HumaElective	
	Total:	18		
<b>Tenth Semester</b>	<b>FIFTH YEAR</b>			
	BME 49200	3	Biomed Design II	
	BME 46100	3	Transport Processes	
	Social Science	3	Soc Sci Elective	
	GER 400-level	3	400-level German	
	BME elective	3	Depth Area elective	
	Total:	15		
	5-year total :	165		

\*Placement Test for students with prior GER knowledge.Up to 14 credits waived or credited based on results.

**International Engineering-CmpE-German November 2013**

<b>First Semester</b>	<b>FIRST YEAR</b>	
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	ENGR 19500	1	Intro to Engr Prof
	ENGR 19600	3	Intro to Engineering
	CHEM C105	3	Princ of Chemistry I
	MATH 16500	4	Calculus/AnalGeo I
	GER G131 *	4	First-Year GermanI
	MATH 17100	3	Multidimen. Math
	Total:	18	
<b>Second Semester</b>	<b>FIRST YEAR</b>		
	ECE 26100/26300	4	C Programming
	ENG W131	3	Elementary Comp I
	MATH 16600	4	Calculus/AnalGeo II
	PHYS 15200	4	Mechanics
	GER G132*	4	First-Year Germ II
	Total:	19	
<b>Third Semester</b>	<b>SECOND YEAR</b>		
	ECE 20100	3	Linear Circuit An I
	ECE 20700	1	Elec Measur Tech
	MATH 26100	4	Multivar Calculus
	PHYS 25100	5	Heat, Elec, Optics
	GER G203*	3	Sec-Year German I
	Total:	16	
<b>Fourth Semester</b>	<b>SECOND YEAR</b>		
	ECE 20200	3	Linear Circuit An II
	ECE 21000	1	Soph. Seminar
	ENGR 29700	1	Matlab
	CSCI 24000	4	Advanced Prog.
	MATH 26600	3	Differential Eqns
	GER G204*	3	Sec-Year German II
	Total:	15	
<b>Fifth Semester</b>	<b>THIRD YEAR</b>		
	COMM R110	3	Fund Speech Com
	ECE 27000	4	Digital Logic Desig
	CSCI 34000	3	Discrete Math
	ECON E201	3	Microeconomics
	GER 300- level	3	300-Ger Elective
	Total:	16	
<b>Sixth Semester</b>	<b>THIRD YEAR</b>		
	CSCI 36200	3	Data Structures
	ECE 30100	3	Signals and Systems
	ECE 36200	4	Microprocessor Sys
	Social Science	3	Soc Sci Elective
	GER 300- level	3	300-Ger Elective
	Total:	16	
<b>Seventh Semester</b>	<b>FOURTH YEAR</b>		

<b>INTERNSHIP/</b>	Tech Elect	2	
<b>GERMANY</b>	GER 493	6	Internship Projects
	Total:	8	
<b>Eighth Semester</b>	<b>FOURTH YEAR</b>		
	CmpE Elective	3	
	TCM 36000	2	Comm in Engr
	ECE 28200	1	Unix
	ECE 30200	3	Probabilistic Meth
	Humanities	3	Huma Elective
	ECE 36500	3	Des. Dig. Comp
	Total:	15	
<b>Ninth Semester</b>	<b>FIFTH YEAR</b>		
	Humanities	3	Huma Elective
	ECE 48700	1	Senior Design
	CmpE Elective	3	
	Adv. CmpE Req.	3	
	GER 400-level	3	400-Ger Elective
	Soc Sci/Huma	3	SoSc/Huma Elective
	Total:	16	
<b>Tenth Semester</b>	<b>FIFTH YEAR</b>		
	Adv. CmpE Req.	3	
	Cmp E Elective	3	
	ECE 40100	1	Ethics
	ECE 48800	2	Senior Design
	ECE 40800	3	Operating Systems
	GER 400-level	3	400-Ger Elective
	ECE 49600	1	Cmp. E. Project
	Total	16	
	5-year total	155	

\*Placement Test for students with prior GER knowledge. Up to 14 credits waived or credited based on results.

Revised 11/4/13

**International Engineering-EE-German**

**November 2013**

<b>First Semester</b>	<b>FIRST YEAR</b>	
First-Year	ENGR 19500	1 Intro to Engr Prof
	ENGR 19600	3 Intro to Engineering
	CHEM C105	3 Princ of Chemistry I
	MATH 16500	4 Calculus/AnalGeo I
	GER G131*	4 First-Year German I
	MATH 17100	3 Multidimen. Math
	Total:	18
<b>Second Semester</b>	<b>FIRST YEAR</b>	
	ECE 26100/26300	4 C Programming

	ENG W 131	3	Elementary Comp I
	MATH 16600	4	Calculus/AnalGeo II
	PHYS 15200	4	Mechanics
	GER G132*	4	First-Year GermanII
	Total:	19	
<b>Third Semester</b>	<b>SECOND YEAR</b>		
	ECE 20100	3	Linear Circuit Ana I
	ECE 20700	1	Electr Measurement
	MATH 26100	4	Multivar Calculus
	PHYS 25100	5	Heat, Elec, Optics
	GER G203*	3	Sec-Year German I
	Total:	16	
<b>Fourth Semester</b>	<b>SECOND YEAR</b>		
	ECE 20200	3	Circuit Analysis II
	ECE 27000	4	Digital Logic Desig
	MATH 26600	3	Differential Eqns.
	GER G204*	3	Sec-Year German II
	ENGR 29700	1	Matlab
	ECE 21000	1	Sophomore Seminar
	Total:	15	
<b>Fifth Semester</b>	<b>THIRD YEAR</b>		
	ECE 30100	3	Signals & Systems
	ECE 31100	3	Elec & Magn Fields
	ECE 36200	4	Microprocessor
	ME 29500	3	Mechanics/Heat
	GER 300-level	3	300-Ger Elective
	Total:	16	
<b>Sixth Semester</b>	<b>THIRD YEAR</b>		
	ECE 30200	3	Probabilistic Meth
	ECE 38200	3	Controls
	ECE 25500	3	Elect. Anal. & Des.
	COMM R110	3	Fund Speech Comm
	GER 300-level	3	300-Ger Elective
	ECE 20800	1	Elect. Anal Des Lab
	Total:	16	
<b>Seventh Semester</b>	<b>FOURTH YEAR</b>		
<b>INTERNSHIP/</b>	Tech Elect	2	
<b>GERMANY</b>	GER 493	6	Internship Projects
	Total:	8	
<b>Eighth Semester</b>	<b>FOURTH YEAR</b>		
	TCM 36000	2	Comm in Engineer
	Humanities	3	Huma Elective
	ECE Elective I	3	
	Social Sci	3	Soc Sci Elective
	ECE Elective II	3	

	Total: 14	
<b>Ninth Semester</b>	<b>FIFTH YEAR</b>	
	ECE elect. III-IV 6	
	ECE 44000 4	Comm. Syst. Anal.
	ECON E201 3	Microeconomics
	GER 400-level 3	400-elective
	ECE 48700 1	Senior Design
	Total: 17	
<b>Tenth Semester</b>	<b>FIFTH YEAR</b>	
	ECE 48800 2	Senior Design
	ECE Elec V 3	
	ECE 40100 1	Engr. Ethics/Prof
	GER 400-level 3	400-elective
	Humanities 3	Huma Elective
	Soc Sci/Huma 3	Elective
	ECE 49600 1	EE Project
	Total: 16	
	5-year total 155	

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### International Engineering-ME-German

Fall, 2013

<b>First Semester</b>	<b>FIRST YEAR</b>	
	ENGR 19500 1	Intro to Engr Prof
	ENGR 19600 3	Intro to Engineering
	CHEM C105 3	Princ of Chemistry I
	MATH 16500 4	Calculus/AnalGeo I
	GER G131* 4	First-Year German I
	MATH 17100 3	Multidimen. Math
	Total: 18	
<b>Second Semester</b>	<b>FIRST YEAR</b>	
	ENGR 19700 2	Intro Progr Concept
	ENG W131 3	Elementary Comp I
	MATH 16600 4	Calculus/AnalGeo II
	PHYS 15200 4	Mechanics
	GER G132* 4	First-Year German II
	Total: 17	
<b>Third Semester</b>	<b>SECOND YEAR</b>	
	ME 27000 3	Basic Mechanics I
	MATH 26100 4	Multivar Calculus
	PHYS 25100 5	Heat, Elec, Optics
	GER G203* 3	Sec-Year German I
	ENGR 29700 1	Matlab

	Total:	16	
<b>Fourth Semester</b>	<b>SECOND YEAR</b>		
	ME 20000	3	Thermodynamics I
	ME 27400	3	Basic Mechanics II
	ECE 20400	4	Intro to Elect Circuit
	MATH 26600	3	Differential Eqns.
	GER G204*	3	Sec-Year German II
	Total:	16	
<b>Fifth Semester</b>	<b>THIRD YEAR</b>		
	ME 27200	3	Mech of Materials
	ME 31000	4	Fluid Mechanics
	ME 33000	3	Dynamic Systems
	COMM R110	3	Speech Comm.
	GER 300-level	3	300-Ger Elective
	Total:	16	
<b>Sixth Semester</b>	<b>THIRD YEAR</b>		
	ME 34400	3	Intro Engr Materials
	ME 31400	4	Heat Mass Transfer
	Statistics Elect.	3	
	ME 262	3	Design, Ethics, Entre
	GER 300- level	3	300-elective
	Total:	16	
<b>Seventh Semester</b>	<b>FOURTH YEAR</b>		
<b>INTERNSHIP/</b>	Tech Elect I	2	
<b>GERMANY</b>	GER 493	6	Internship Projects
	Total:	8	
<b>Eighth Semester</b>	<b>FOURTH YEAR</b>		
	ME 34000	3	Dyn Systems/Meas
	TCM 36000	2	Comm in Engr
	ME 37200	3	Mechanism Design
	ME 39700	1	ME Lab
	Sci/Tech elect	3	
	Tech elect II	3	
	Humanities	3	Huma Elective
	Total:	18	
<b>Ninth Semester</b>	<b>FIFTH YEAR</b>		
	Social Science	3	Soc Sci Elective
	ME 48200	3	Control Systems
	ME 41400 or ME 49700	3	Thermal Fluid or Machine Design
	Soc Sci/Huma	3	So Sci/Huma Elective
	GER 400-level	3	400-elective
	Total:	15	

<b>Tenth Semester</b>	<b>FIFTH YEAR</b>	
	ME 49100      1	Design Project
	Tech Elect III      3	
	ME 46200      3	Senior Design
	ME 40500      1	FE Review
	GER 400-level      3	400-elective
	Humanities      3	Huma Elective
	ECON E201      3	Microeconomics
	Total      17	
	5-year total      157	

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