

Subject	Number	Title	First Admit Term			Previous Code	First Admit Term		
			After 2013-2014	After 2013-2014	After 2013-2014		Before 2013-2014	Before 2013-2014	Before 2013-2014
			ECTS TOTAL	ECTS Engineering	ECTS Basic Science		ECTS TOTAL	ECTS Engineering	ECTS Basic Science
ACC	201	Introduction to Financial Accounting and Reporting	6,0	0,0	0,0	-	6	0,0	0,0
ACC	301	Managerial Accounting	6,0	0,0	0,0	-	6	0,0	0,0
BIO	301	Introduction to Molecular Biology	7,0	0,0	7,0	-	8	0,0	8,0
BIO	302	Techniques in Molecular Bio.	0,0	0,0	0,0	-	0	0,0	0,0
BIO	303	Genetics	7,0	2,0	5,0	-	6	1,7	4,3
BIO	304	Biological Function and Structure	6,0	1,0	5,0	-	6	1,0	5,0
BIO	305	Biochemistry II	0,0	0,0	0,0	-	0	0,0	0,0
BIO	306	Microbiology	7,0	0,0	7,0	-	8	0,0	8,0
BIO	308	Plant Physiology	7,0	0,0	7,0	-	6	0,0	6,0
BIO	310	Introduction to Bioinformatics	6,0	0,0	6,0	-	6	0,0	6,0
BIO	321	Biochemistry I	7,0	0,0	7,0	-	8	0,0	8,0
BIO	322	Biochemistry II	5,0	0,0	5,0	-	6	0,0	6,0
BIO	330	Environmental Plant Biology	5,0	0,0	5,0	-	6	0,0	6,0
BIO	332	Cell Biology	7,0	0,0	7,0	-	6	0,0	6,0
BIO	335	Analytical Techniques	6,0	1,0	5,0	-	6	1,0	5,0
BIO	363	Ecology	5,0	0,0	5,0	-	6	0,0	6,0
BIO	366	Biophysics: Molecules and Sys.	0,0	0,0	0,0	-	0	0,0	0,0
BIO	370	Mammalian Cell Culture	7,0	0,0	7,0	-	6	0,0	6,0
BIO	401	General Biotechnology	0,0	0,0	0,0	-	0	0,0	0,0
BIO	403	Plant Pathology	5,0	0,0	5,0	-	6	0,0	6,0
BIO	404	Plant Biotechnology	5,0	2,0	3,0	-	6	2,4	3,6
BIO	406	Protein Engineering	6,0	3,0	3,0	-	8	4,0	4,0
BIO	407	Multicellular Organization	5,0	0,0	5,0	-	6	0,0	6,0
BIO	409	Mod&Simul.of Biomolecular Proc	5,0	2,5	2,5	-	6	3,0	3,0
BIO	410	Evolution and Ecology	6,0	0,0	6,0	-	6	0,0	6,0
BIO	415	Plant Nutrition	5,0	0,0	5,0	-	6	0,0	6,0
BIO	432	Analytical Techniques	0,0	0,0	0,0	-	0	0,0	0,0
BIO	445	Plant Tissue Culture Techniques	7,0	3,0	4,0	-	6	2,6	3,4
BIO	447	Plant Breeding	5,0	0,0	5,0	-	6	0,0	6,0
BIO	452	Immunology	6,0	0,0	6,0	-	6	0,0	6,0
BIO	466	Biophysics: Molecules and Systems	6,0	1,0	5,0	-	6	1,0	5,0
BIO	467	Signal Transduction	6,0	1,0	5,0	-	6	1,0	5,0
BIO	480	Spc.Top.in Bio.Sci.&Bioeng.	5,0	0,0	5,0	-	6	0,0	6,0
BIO	481	Spc.Top.in Bio.Sci.&Bioeng.II	5,0	2,5	2,5	-	6	3,0	3,0
CHEM	202	Kinetics of Materials	7,0	2,0	5,0	-	7	2,0	5,0
CHEM	301	Inorganic Chemistry	6,0	1,0	5,0	-	6	1,0	5,0
CHEM	302	Analytical Chemistry	7,0	2,0	5,0	-	8	2,3	5,7
CHEM	369	Chem. of Transformable Mtrls.	6,0	3,0	3,0	-	6	3,0	3,0
CHEM	405	Electrochemistry	6,0	2,0	4,0	-	6	2,0	4,0
CS	201	Introduction to Computing	6,0	6,0	0,0	-	6	6,0	0,0
CS	202	Data Structures	6,0	6,0	0,0	-	6	6,0	0,0
CS	204	Advanced Programming	6,0	6,0	0,0	-	6	6,0	0,0
CS	210	Introduction to Data Science	6,0	4,0	2,0	-	6	4,0	2,0
CS	300	Data Structures	6,0	5,0	1,0	-	6	5,0	1,0
CS	301	Algorithms	6,0	5,0	1,0	-	6	5,0	1,0
CS	302	Formal Languages and Automata Theory	6,0	6,0	0,0	-	6	6,0	0,0
CS	303	Logic and Digital System Design	7,0	6,0	1,0	-	8	6,9	1,1
CS	305	Programming Languages	6,0	6,0	0,0	-	6	6,0	0,0
CS	306	Database Systems	6,0	6,0	0,0	-	6	6,0	0,0
CS	307	Operating Systems	6,0	6,0	0,0	-	6	6,0	0,0
CS	308	Software Engineering	7,0	7,0	0,0	-	8	8,0	0,0
CS	310	Mobile Computing	6,0	6,0	0,0	-	6	6,0	0,0
CS	400	Logic in Computer Science	6,0	1,0	5,0	-	6	1,0	5,0
CS	401	Computer Architectures	6,0	6,0	0,0	-	8	8,0	0,0
CS	402	Compiler Design	6,0	6,0	0,0	-	6	6,0	0,0
CS	403	Distributed Systems	6,0	6,0	0,0	-	6	6,0	0,0
CS	404	Artificial Intelligence	6,0	4,0	2,0	-	6	4,0	2,0
CS	405	Computer Graphics	6,0	4,0	2,0	-	6	4,0	2,0
CS	406	Parallel Computing	6,0	6,0	0,0	-	6	6,0	0,0
CS	407	Theory of Computation	6,0	6,0	0,0	-	6	6,0	0,0
CS	408	Computer Networks	6,0	6,0	0,0	-	6	6,0	0,0
CS	409	Introduction to Scientific Computing	6,0	4,0	2,0	-	6	4,0	2,0
CS	411	Cryptography	6,0	4,0	2,0	-	10	6,7	3,3
CS	412	Machine Learning	6,0	3,0	3,0	-	10	5,0	5,0
CS	432	Computer and Network Security	6,0	6,0	0,0	-	6	6,0	0,0
CS	439	Software Verification and Validation	6,0	5,0	1,0	-	6	5,0	1,0
CS	450	Arts and Computing	6,0	6,0	0,0	-	6	6,0	0,0
CS	480	Spc.Top.in Comp.Science&Eng.I	6,0	6,0	0,0	-	6	6,0	0,0
CS	481	Spc.Top.in Comp.Science&Eng.II	6,0	6,0	0,0	-	6	6,0	0,0
ECON	201	Games and Strategies	6,0	3,0	0,0	-	6,0	3,0	0,0
ECON	202	Macroeconomics	6,0	0,0	0,0	-	6	0,0	0,0
ECON	204	Microeconomics	6,0	3,0	0,0	-	6	3,0	0,0
ECON	301	Econometrics	7,0	3,0	2,0	-	7	3,0	2,0
ECON	310	Game Theory	6,0	3,0	0,0	-	6	3,0	0,0
ECON	345	International Finance	6,0	0,0	0,0	-	6	0,0	0,0
ECON	360	Advanced Macroeconomics	7,0	0,0	0,0	-	7	0,0	0,0
ECON	370	Advanced Microeconomics	7,0	3,0	0,0	-	6	2,6	0,0
ECON	481	Microeconomics I	7,0	3,0	0,0	-	8	3,4	0,0
ECON	482	Microeconomics II	7,0	3,0	0,0	-	8	3,4	0,0
ECON	483	Advanced Macroeconomic Theory I	7,0	2,0	0,0	-	8	2,3	0,0
ECON	484	Advanced Macroeconomic Theory II	7,0	2,0	0,0	-	8	2,3	0,0
EE	200	Electronic Circuit Implementations	2,0	2,0	0,0	-	2	2,0	0,0
EE	202	Electronic Circuits II	6,0	6,0	0,0	EL202	8	8,0	0,0
EE	301	Electromagnetics II	6,0	6,0	0,0	TE305	6	6,0	0,0
EE	302	Digital Integrated Circuits	6,0	6,0	0,0	EL302	8	8,0	0,0
EE	303	Analog Integrated Circuits	6,0	6,0	0,0	EL303	6	6,0	0,0
EE	306	Intr.to Radio Freq&Microw Des.	6,0	6,0	0,0	EL306	6	6,0	0,0
EE	307	Semiconductor Physics and Devices	6,0	4,0	2,0	EL204	6	4,0	2,0
EE	308	Microcomputer Based Sys Design	7,0	7,0	0,0	EL308	8	8,0	0,0
EE	310	HW Description Languages	6,0	6,0	0,0	EL310	8	8,0	0,0
EE	311	Introduction to Signal Processing and Information Systems	6,0	5,0	1,0	TE301	6	5,0	1,0
EE	312	Discrete Signals & Systems	6,0	5,0	1,0	TE302	6	5,0	1,0
EE	313	Introduction to Communication Systems	6,0	5,0	1,0	TE303	6	5,0	1,0
EE	314	Digital Communications	6,0	4,0	2,0	TE304	6	4,0	2,0
EE	401	VLSI Systems Design I	6,0	6,0	0,0	EL401	8	8,0	0,0
EE	402	VLSI Systems Design II	6,0	6,0	0,0	EL402	6	6,0	0,0
EE	403	Optoelectronics	6,0	4,0	2,0	EL305	6	4,0	2,0
EE	404	Int. to Microelectromech. Sys.	6,0	6,0	0,0	EL404	6	6,0	0,0
EE	405	Communication Circuits Design	6,0	6,0	0,0	EL405	6	6,0	0,0

EE	406	Anten.&Propag.for Wireless Com	6,0	6,0	0,0	TE402	8	8,0	0,0
EE	407	Microelectronic Fabrication	6,0	6,0	0,0	EL407	6	6,0	0,0
EE	408	Modeling of Semicond. Devices	6,0	4,0	2,0	EL304	6	4,0	2,0
EE	409	Microwaves	6,0	6,0	0,0	TE401	6	6,0	0,0
EE	410	Information and Coding Theory	6,0	5,0	1,0	TE410	6	5,0	1,0
EE	413	Wireless Communications	6,0	4,0	2,0	TE412	6	4,0	2,0
EE	414	Multimedia Communication	6,0	6,0	0,0	TE404	6	6,0	0,0
EE	415	Digital Speech&Audio Process.	6,0	6,0	0,0	TE405	6	6,0	0,0
EE	417	Computer Vision	6,0	5,0	1,0	TE407	8	6,7	1,3
EE	419	Signal Processing Design and Implementation	6,0	4,0	2,0	TE409	8	5,3	2,7
EE	444	Optics	6,0	5,0	1,0	EL444	6	5,0	1,0
EE	473	Biomedical Instrumentation	6,0	4,0	2,0	EL473	6	4,0	2,0
EE	480	Special Topics in Microelectronics	6,0	6,0	0,0	EL480	6	6,0	0,0
EE	482	Spc.Top.in Telecommunications	6,0	6,0	0,0	TE480	6	6,0	0,0
EL	202	Electronic Circuits II	7,0	7,0	0,0	-	8	8,0	0,0
EL	204	Semiconductor Physics and Devices	6,0	4,0	2,0	-	6	4,0	2,0
EL	302	Digital Integrated Circuits	6,0	6,0	0,0	-	8	8,0	0,0
EL	303	Analog Integrated Circuits	6,0	6,0	0,0	-	6	6,0	0,0
EL	304	Modeling of Semiconductor Devices	6,0	4,0	2,0	-	6	4,0	2,0
EL	305	Optoelectronics	6,0	4,0	2,0	-	6	4,0	2,0
EL	306	Introduction to Radio Frequency and Microwave Design	6,0	6,0	0,0	-	6	6,0	0,0
EL	308	Microcomputer Based System Design	7,0	7,0	0,0	-	8	8,0	0,0
EL	310	Hardware Description Languages	6,0	6,0	0,0	-	8	8,0	0,0
EL	401	Very Large Scale Integrated System Design I	6,0	6,0	0,0	-	8	8,0	0,0
EL	402	Very Large Scale Integrated System Design II	6,0	6,0	0,0	-	6	6,0	0,0
EL	404	Introduction to Microelectromechanical Systems	6,0	6,0	0,0	-	6	6,0	0,0
EL	405	Communication Circuit Design	6,0	6,0	0,0	-	6	6,0	0,0
EL	407	Microelectronic Fabrication	6,0	6,0	0,0	-	6	6,0	0,0
EL	444	Optics	6,0	5,0	1,0	-	6	5,0	1,0
EL	473	Biomedical Instrumentation	6,0	4,0	2,0	-	6	4,0	2,0
EL	480	Special Topics in Microelectronics	6,0	6,0	0,0	-	6	6,0	0,0
ENS	201	Electromagnetics I	6,0	4,0	2,0	-	6	4,0	2,0
ENS	202	Thermodynamics	6,0	3,0	3,0	-	6	3,0	3,0
ENS	203	Electronic Circuits I	6,0	6,0	0,0	-	8	8,0	0,0
ENS	204	Mechanics	6,0	5,0	1,0	-	6	5,0	1,0
ENS	205	Introduction to Materials Science I	6,0	4,0	2,0	-	6	4,0	2,0
ENS	206	Systems Modeling and Control	6,0	2,0	4,0	-	6	2,0	4,0
ENS	207	Introduction to Energy Systems	6,0	4,0	2,0	-	6	4,0	2,0
ENS	208	Introduction to Manufacturing Systems	6,0	6,0	0,0	-	6	6,0	0,0
ENS	209	Introduction to Computer Aided Drafting and Solid Modeling	6,0	5,0	1,0	-	6	5,0	1,0
ENS	210	Computational Biology	6,0	0,0	6,0	-	6	0,0	6,0
ENS	211	Signals	6,0	3,0	3,0	-	6	3,0	3,0
ENS	214	Dynamics	6,0	4,0	2,0	-	6	4,0	2,0
ENS	222	Intr.to:Bio.Cir.&Molec.Machin	6,0	2,0	4,0	-	6	2,0	4,0
ENS	301	Energy Sys&Environment	6,0	3,0	3,0	-	6	3,0	3,0
ENS	302	Technology and Society	5,0	5,0	0,0	-	6	6,0	0,0
ENS	303	Introduction to Space Technology	6,0	4,0	2,0	-	6	4,0	2,0
ENS	315	Energy	5,0	2,0	3,0	-	6	2,4	3,6
ENS	413	Experimental Methods in Nanoscience I	6,0	0,0	6,0	-	6	0,0	6,0
ENS	414	Experimental Methods in Nanoscience II	6,0	0,0	6,0	-	6	0,0	6,0
ENS	416	Intr.to Scanning Probe Microsc	6,0	3,0	3,0	-	6	3,0	3,0
ENS	480	Sp.T. in Eng & Nat. Sciences I	6,0	6,0	0,0	-	6	6,0	0,0
ENS	481	Sp.T. in Eng&Nat. Sciences II	6,0	3,0	3,0	-	6	3,0	3,0
ENS	491	Graduation Project (Design)	2,0	2,0	0,0	-	2	2,0	0,0
ENS	492	Graduation Project(Implement.)	5,0	5,0	0,0	-	2	2,0	0,0
FIN	301	Financial Management	6,0	3,0	0,0	-	6	3,0	0,0
FIN	401	Corporate Finance	6,0	3,0	0,0	-	6	3,0	0,0
FIN	402	Investments	6,0	6,0	0,0	-	6	6,0	0,0
FIN	403	Derivative Securities	6,0	6,0	0,0	-	6	6,0	0,0
FIN	404	Multinational Corporate Finance	6,0	3,0	0,0	-	6	3,0	0,0
FIN	405	Corporate Mergers & Acquisitions	6,0	3,0	0,0	-	6	3,0	0,0
IE	301	Deterministic Models in OR	7,0	5,0	2,0	MS301	8	5,7	2,3
IE	302	Stochastic Models in OR	7,0	5,0	2,0	MS302	8	5,7	2,3
IE	303	Decision Economics	6,0	6,0	0,0	MS303	6	6,0	0,0
IE	304	Product & Serv.Sys Plan&Design	6,0	6,0	0,0	MS304	6	6,0	0,0
IE	305	Simulation	6,0	5,0	1,0	MS305	6	5,0	1,0
IE	306	Ergonomics	5,0	5,0	0,0	MS306	6	6,0	0,0
IE	307	Work Analysis & Design	5,0	5,0	0,0	MS307	6	6,0	0,0
IE	309	Manufacturing Processes I	6,0	5,0	1,0	MS309	6	5,0	1,0
IE	311	Operations Research I	6,0	4,0	2,0	-	6	4,0	2,0
IE	312	Operations Research II	6,0	5,0	1,0	-	6	5,0	1,0
IE	313	Operations Research III	6,0	4,0	2,0	-	6	4,0	2,0
IE	401	Produc.&Service Sys.Operations	6,0	6,0	0,0	MS401	6	6,0	0,0
IE	402	Integrated Manufacturing Sys.	7,0	7,0	0,0	MS402	8	8,0	0,0
IE	403	Quality Planning & Control	6,0	6,0	0,0	MS403	6	6,0	0,0
IE	405	Decision Analysis	6,0	6,0	0,0	MS405	6	6,0	0,0
IE	407	Investment Decision Making	6,0	6,0	0,0	MS407	6	6,0	0,0
IE	408	Reliability&Maintenance Analy.	6,0	6,0	0,0	MS408	6	6,0	0,0
IE	409	Project Scheduling & Managemen	6,0	6,0	0,0	MS409	6	6,0	0,0
IE	411	Modeling&Analysis of Large Sys	6,0	6,0	0,0	MS411	6	6,0	0,0
IE	412	Financial Engineering	6,0	6,0	0,0	MS412	6	6,0	0,0
IE	413	Informations Systems	5,0	5,0	0,0	MS413	6	6,0	0,0
IE	414	Manufacturing Strategies	5,0	5,0	0,0	MS414	6	6,0	0,0
IE	415	Decision Support Systems	6,0	6,0	0,0	MS415	6	6,0	0,0
IE	416	Additive Manufacturing	7,0	7,0	0,0	-	6	6,0	0,0
IE	417	Facilit.&Material Handling Des	6,0	6,0	0,0	MS417	6	6,0	0,0
IE	418	Manufacturing Processes II	6,0	6,0	0,0	MS418	6	6,0	0,0
IE	419	Total Quality Management	5,0	5,0	0,0	MS419	6	6,0	0,0
IE	420	Storage & Distribution Systems	6,0	6,0	0,0	MS420	6	6,0	0,0
IE	430	Logistics Sys&Plan. and Design	6,0	6,0	0,0	MS430	6	6,0	0,0
IE	432	Stochastic Models in Finance	6,0	4,0	2,0	MS432	6	4,0	2,0
IE	451	Data Visualization&Analysis	6,0	6,0	0,0	MS451	6	6,0	0,0
IE	454	Supply Chain Analysis	6,0	6,0	0,0	MS454	6	6,0	0,0
IE	471	Supply Chain Practice	5,0	5,0	0,0	-	5	5,0	0,0
IE	472	Strategic Decision Making Practice	5,0	5,0	0,0	-	5	5,0	0,0
IE	480	Spc.Top.Industrial Eng.	5,0	5,0	0,0	MS480	6	6,0	0,0
IE	481	Spc.Top.Industrial Eng.II	5,0	5,0	0,0	MS481	6	6,0	0,0
IE	482	Spc.Top.Industrial Eng.III	5,0	5,0	0,0	MS482	6	6,0	0,0
IF	100	Computational Approaches to Problem Solving	5,0	5,0	0,0	-	5	5,0	0,0
IF	200	Fantasy,Reality,Sci.&Society	6,0	0,0	2,0	-	6	0,0	2,0
IF	401	Energy: Supply Chain, Economics and Geopolitics	6,0	2,0	2,0	-	6	2,0	2,0
IF	333	Creativity, Innovation and Entrepreneurship	6,0	4,0	0,0	-	6	4,0	0,0
IF	467	Decision, Psychology and Brain	6,0	3,0	3,0	-	6	3,0	3,0
MAT	202	Kinetics	6,0	2,0	4,0	-	8	2,7	5,3
MAT	204	Electrical, Optical and Magnetic Properties of Materials	6,0	2,0	4,0	-	6	2,0	4,0

MAT	206	Kinetics	6,0	2,0	4,0	-	8	2,7	5,3
MAT	302	Polymer Synthesis	7,0	2,0	5,0	-	8	2,3	5,7
MAT	304	Biopolymers	5,0	2,5	2,5	-	6	3,0	3,0
MAT	305	Polymer Engineering I	5,0	4,0	1,0	-	6	4,8	1,2
MAT	306	Computational Techniques for Materials Science	5,0	2,0	3,0	-	6	2,4	3,6
MAT	307	Composite Materials	6,0	5,0	1,0	-	6	5,0	1,0
MAT	308	Phase Equilibria	5,0	4,0	1,0	-	6	4,8	1,2
MAT	309	Transport Phenomena in Materials Processing	6,0	6,0	0,0	-	6	6,0	0,0
MAT	310	Chemical Processes for New Materials	5,0	4,0	1,0	-	6	4,8	1,2
MAT	312	Materials Characterization	7,0	2,0	5,0	-	8	2,3	5,7
MAT	314	Mechanical Properties of Materials	5,0	4,0	1,0	-	6	4,8	1,2
MAT	401	Surface Chemistry	6,0	2,0	4,0	-	6	2,0	4,0
MAT	402	Polymer Engineering II	5,0	4,0	1,0	-	6	4,8	1,2
MAT	403	Polymer Processes	5,0	4,0	1,0	-	6	4,8	1,2
MAT	404	Polymer Physics	5,0	4,0	1,0	-	6	4,8	1,2
MAT	405	Advanced Materials Characterization	7,0	2,0	5,0	-	8	2,3	5,7
MAT	406	Introduction to Nanoscience	5,0	5,0	0,0	-	6	6,0	0,0
MAT	408	Introduction to Ceramics	5,0	4,0	1,0	-	6	4,8	1,2
MAT	416	Biomaterials Science and Biocompatibility	5,0	2,0	3,0	-	6	2,4	3,6
MAT	422	Glass Science and Engineering	5,0	2,5	2,5	-	10	5,0	5,0
MAT	423	Cement Chemistry and Technology	6,0	6,0	0,0	-	6	6,0	0,0
MAT	480	Spc.Top.in Mat.Sci&Eng.	5,0	5,0	0,0	-	6	6,0	0,0
MAT	481	Spc.Top.in Mat.Sci&Eng.II	5	5	0,0	-	6	6,0	0,0
MATH	101	Calculus I	6,0	0,0	6,0	-	5	0,0	5,0
MATH	102	Calculus II	6,0	0,0	6,0	-	5	0,0	5,0
MATH	201	Linear Algebra	6,0	0,0	6,0	-	6	0,0	6,0
MATH	202	Differential Equations	6,0	0,0	6,0	-	6	0,0	6,0
MATH	203	Introduction to Probability	6,0	0,0	6,0	-	6	0,0	6,0
MATH	204	Discrete Mathematics	6,0	0,0	6,0	-	6	0,0	6,0
MATH	206	Vector Calculus	6,0	0,0	6,0	-	6	0,0	6,0
MATH	301	Introduction to Mathematical Analysis	6,0	0,0	6,0	-	6	0,0	6,0
MATH	302	Integration	6,0	0,0	6,0	-	6	0,0	6,0
MATH	305	Complex Calculus	6,0	0,0	6,0	-	6	0,0	6,0
MATH	306	Statistical Modelling	6,0	0,0	6,0	-	6	0,0	6,0
MATH	307	Dynamical Systems	6,0	0,0	6,0	-	6	0,0	6,0
MATH	311	Introduction to Algebra	6,0	0,0	6,0	-	6	0,0	6,0
MATH	317	Elementary Number Theory	6,0	0,0	6,0	-	6	0,0	6,0
MATH	318	Introduction to Combinatorics	6,0	0,0	6,0	-	6	0,0	6,0
MATH	322	Partial Differential Equations	6,0	0,0	6,0	-	6	0,0	6,0
MATH	401	Introduction to Functional Analysis	6,0	0,0	6,0	-	6	0,0	6,0
MATH	402	Hilbert Space Techniques	6,0	0,0	6,0	-	6	0,0	6,0
MATH	405	Numerical Methods	6,0	3,0	3,0	-	6	3,0	3,0
MATH	409	Proofs from the Notebook	6,0	0,0	6,0	-	10	0,0	10,0
MATH	410	Introduction to Stochastic Calculus	6,0	0,0	6,0	-	6	0,0	6,0
MATH	414	Finite Fields and Applications	6,0	0,0	6,0	-	6	0,0	6,0
MATH	480	Spc.Top.in Mathematics	6,0	3,0	3,0	-	6	3,0	3,0
MATH	481	Special Topics in Advanced Linear Algebra	6,0	0,0	6,0	-	6	0,0	6,0
ME	301	Mechanical Systems I	6,0	5,0	1,0	-	6	5,0	1,0
ME	302	Mechanical Systems II	6,0	6,0	0,0	-	6	6,0	0,0
ME	303	Control System Design	6,0	6,0	0,0	-	6	6,0	0,0
ME	304	Motion Control Systems	6,0	6,0	0,0	-	6	6,0	0,0
ME	305	Power Electronics	6,0	6,0	0,0	-	6	6,0	0,0
ME	307	Fluid Dynamics	6,0	5,0	1,0	-	6	5,0	1,0
ME	308	Industrial Control	6,0	6,0	0,0	-	6	6,0	0,0
ME	309	Heat and Mass Transfer	6,0	5,0	1,0	-	6	5,0	1,0
ME	310	Computer Aided Design	0,0	0,0	0,0	-	0	0,0	0,0
ME	312	Analysis and Synthesis of Mechanisms	6,0	6,0	0,0	-	6	6,0	0,0
ME	402	Plasmonics	6,0	5,0	1,0	-	6	5,0	1,0
ME	403	Introduction to Robotics	6,0	5,0	1,0	-	6	5,0	1,0
ME	405	Mechanical Vibrations	6,0	6,0	0,0	-	6	6,0	0,0
ME	406	Robotics Systems Application	0,0	0,0	0,0	-	0	0,0	0,0
ME	407	Embedded Systems	6,0	5,0	1,0	-	6	5,0	1,0
ME	408	Mechatronics System Design	6,0	6,0	0,0	-	8	8,0	0,0
ME	409	Foundations of Microsystems	7,0	5,0	2,0	-	6	4,3	1,7
ME	410	Computer Aided Engineering	6,0	4,0	2,0	-	6	4,0	2,0
ME	411	Mechanical System Design	6,0	5,0	1,0	-	8	6,7	1,3
ME	412	Introduction to the Finite Element Method	6,0	3,0	3,0	-	6	3,0	3,0
ME	415	Computational Analysis and Simulation	6,0	3,0	3,0	-	6	3,0	3,0
ME	420	Renewable and Sustainable Energy Systems	6,0	5,0	1,0	-	6	5,0	1,0
ME	425	Autonomous Mobile Robotics	6,0	5,0	1,0	-	6	5,0	1,0
ME	435	Scaling in Engineering Systems	6,0	3,0	3,0	-	6	3,0	3,0
ME	437	Biomechatronics	6,0	4,0	2,0	-	6	4,0	2,0
ME	480	Spc.Top.Manufact.Sys.Eng.	5,0	5,0	0,0	-	6	6,0	0,0
ME	480	Spc.Top.in Mechatronics I	6,0	4,0	2,0	-	6	4,0	2,0
ME	481	Spc.Top.Manufact.Sys.Eng.II	5,0	5,0	0,0	-	6	6,0	0,0
ME	481	Spc.Top.in Mechatronics II	6,0	3,0	3,0	-	6	3,0	3,0
ME	482	Spc.Top.Manufact.Sys.Eng.III	5,0	5,0	0,0	-	6	6,0	0,0
MGMT	201	Introduction to Management	6,0	2,0	2,0	-	6	2,0	2,0
MGMT	203	Introduction to Data Analysis and Research in Business	6,0	2,0	2,0	-	6	2,0	2,0
MS	301	Deterministic Models in Operations Research	7,0	5,0	2,0	-	8	5,7	2,3
MS	302	Stochastic Models in Operations Research	7,0	5,0	2,0	-	8	5,7	2,3
MS	303	Decision Economics	6,0	6,0	0,0	-	6	6,0	0,0

MS	304	Production and Service Systems Planning and Design	6,0	6,0	0,0	-	6	6,0	0,0
MS	305	Simulation	6,0	5,0	1,0	-	6	5,0	1,0
MS	306	Ergonomics	5,0	5,0	0,0	-	6	6,0	0,0
MS	307	Work Analysis and Design	5,0	5,0	0,0	-	6	6,0	0,0
MS	308	Cost Analysis and Control	6,0	6,0	0,0	-	6	6,0	0,0
MS	309	Manufacturing Processes I	6,0	5,0	1,0	-	6	5,0	1,0
MS	401	Production and Service Systems Operations	6,0	6,0	0,0	-	6	6,0	0,0
MS	402	Integrated Manufacturing Systems	7,0	7,0	0,0	-	8	8,0	0,0
MS	403	Quality Planning and Control	6,0	6,0	0,0	-	6	6,0	0,0
MS	405	Decision Analysis	6,0	6,0	0,0	-	6	6,0	0,0
MS	407	Investment Decision Making	6,0	6,0	0,0	-	6	6,0	0,0
MS	408	Reliability and Maintenance Analysis	6,0	6,0	0,0	-	6	6,0	0,0
MS	409	Project Scheduling and Management	6,0	6,0	0,0	-	6	6,0	0,0
MS	411	Modeling and Analysis of Large Systems	6,0	6,0	0,0	-	6	6,0	0,0
MS	412	Financial Engineering	6,0	6,0	0,0	-	6	6,0	0,0
MS	413	Information Systems	5,0	5,0	0,0	-	6	6,0	0,0
MS	414	Manufacturing Strategies	5,0	5,0	0,0	-	6	6,0	0,0
MS	415	Decision Support Systems	6,0	6,0	0,0	-	6	6,0	0,0
MS	417	Facilities and Material Handling Design	6,0	6,0	0,0	-	6	6,0	0,0
MS	418	Manufacturing Processes II	6,0	6,0	0,0	-	6	6,0	0,0
MS	419	Total Quality Management	5,0	5,0	0,0	-	6	6,0	0,0
MS	420	Storage and Distribution Systems	6,0	6,0	0,0	-	6	6,0	0,0
MS	425	Computational Operations Resea	6,0	3,0	3,0	-	6	3,0	3,0
MS	430	Logistics Systems Planning and Design	6,0	6,0	0,0	-	6	6,0	0,0
MS	432	Stochastic Models in Finance	6,0	4,0	2,0	-	6	4,0	2,0
MS	451	Data Visualization and Analysis	6,0	6,0	0,0	-	6	6,0	0,0
MS	454	Supply Chain Analysis	6,0	6,0	0,0	-	6	6,0	0,0
NS	101	Science of Nature I	6,0	0,0	6,0	-	6	0,0	6,0
NS	102	Science of Nature II	6,0	0,0	6,0	-	6	0,0	6,0
NS	200	Einstein's Relativity	5,0	0,0	5,0	-	6	0,0	6,0
NS	201	Discovering Life	6,0	1,0	5,0	-	6	1,0	5,0
NS	202	Biochemistry I	0,0	0,0	0,0	-	0	0,0	0,0
NS	204	Quantum Physics	0,0	0,0	0,0	-	0	0,0	0,0
NS	205	Dynamics of the Cell	0,0	0,0	0,0	-	0	0,0	0,0
NS	206	What is There in the Universe: Inside the Milky Way?	5,0	0,0	5,0	-	6	0,0	6,0
NS	207	Organic Chemistry	6,0	2,0	4,0	-	8	2,7	5,3
NS	208	General Biotechnology	5,0	2,0	3,0	-	6	2,4	3,6
NS	209	What is there in the Universe: "Beyond the Milky Way"	5,0	0,0	5,0	-	6	0,0	6,0
NS	210	Water: Its Physics, Nanophysics, Chemistry and Geopolitics	5,0	0,0	5,0	-	6	0,0	6,0
NS	212	Volcanoes, Earthquakes, Rocks ( Understanding the Earth)	5,0	0,0	5,0	-	5	0,0	5,0
NS	213	Basic Concepts of Physics	6,0	0,0	6,0	-	6	0,0	6,0
NS	214	Oscillations, Waves and Optics	6,0	0,0	6,0	-	6	0,0	6,0
NS	216	Life on Earth	6,0	1,0	5,0	-	6	1,0	5,0
NS	218	Fundamentals of Nanoscience	6,0	2,0	4,0	-	6	2,0	4,0
NS	220	World Energy Outlook: The Coming Year	6,0	3,0	3,0	-	6	3,0	3,0
NS	222	Planetary Systems and Extrasolar Planets	5,0	0,0	5,0	-	6	0,0	6,0
NS	223	Environmental Science	6,0	0,0	6,0	-	6	0,0	6,0
NS	224	Urban Agriculture	6,0	2,0	4,0	-	6	2,0	4,0
OPIM	301	Operations Management	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	302	Management Information Systems	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	390	Introduction to Business Analytics	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	401	Supply Chain Management	6,0	6,0	0,0	-	6	6,0	0,0
OPIM	402	Analytics for Business Decisions	6,0	6,0	0,0	-	6	6,0	0,0
OPIM	403	Service Operations Management	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	404	Business Process Analysis and Design	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	405	Management Decision Support Systems	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	406	Customer Relationship Management using Location Intelligence	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	407	Business Intelligence and Decision Support Systems	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	408	Business Intelligence & Marketing Analytics	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	409	Project Management	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	410	Decision Making Under Uncertainty	6,0	3,0	0,0	-	6	3,0	0,0
OPIM	416	Quality Improvement with Six Sigma	6,0	3,0	0,0	-	6	3,0	0,0
PHIL	321	Symbolic Logic	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	211	Modern Physics	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	302	Solid State Physics	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	303	Quantum Mechanics I	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	304	Quantum Mechanics II	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	312	Classical Mechanics	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	313	Quantum Mechanics Laboratory	6,0	3,0	3,0	-	6	3,0	3,0
PHYS	322	Concepts of Modern Physics	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	401	Classical Mechanics	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	411	Electromagnetic Theory I	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	412	Statistical Mechanics	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	438	Phase Transitions and Renormalization-Group Theory	6,0	0,0	6,0	-	6	0,0	6,0
PHYS	484	Quantum Computation and Quantum Information	6,0	1,0	5,0	-	6	1,0	5,0
PHYS	492	Modern Topics in Condensed Matter Physics	6,0	0,0	6,0	-	6	0,0	6,0
POLS	434	Formal Modelling and Analysis I	6,0	3,0	0,0	-	6	3,0	0,0
PROJ	102	Project Course	2,0	1,0	1,0	-	6	3,0	3,0
PROJ	201	Project Course	1,0	1,0	0,0	-	1	1,0	0,0
PROJ	302	Summer Project	5,0	5,0	0,0	-	2	2,0	0,0
PSY	201	Mind and Behavior	6,0	0,0	3,0	-	6	0,0	3,0
PSY	303	Research Methods [with maths components]	7,0	0,0	3,0	-	6	0,0	2,6
PSY	350	Biological Bases of Behaviour [with neuroscience components]	6,0	0,0	3,0	-	6	0,0	3,0
PSY	380	Testing and Measurement	6,0	0,0	0,0	-	6	0,0	0,0
PSY	450	Topics in Brain, Biology and Behaviour [with neuroscience compo	6,0	0,0	3,0	-	6	0,0	3,0
SPS	311	Research Methods	7,0	0,0	0,0	-	6	0,0	0,0
SPS	315	Analysis of Social Networks	6,0	3,0	3,0	-	6	3,0	3,0
TE	202	Electromagnetics II	0,0	0,0	0,0	-	0	0,0	0,0
TE	301	Introduction to Signal Processing and Information Systems	6,0	5,0	1,0	-	6	5,0	1,0
TE	302	Discrete-Time Signals and Systems	6,0	5,0	1,0	-	6	5,0	1,0
TE	303	Introduction to Communication Systems	6,0	5,0	1,0	-	6	5,0	1,0
TE	304	Digital Communications	6,0	4,0	2,0	-	6	4,0	2,0
TE	305	Electromagnetics II	6,0	6,0	0,0	-	6	6,0	0,0
TE	401	Microwaves	6,0	6,0	0,0	-	6	6,0	0,0
TE	402	Antennas and Propagation for Wireless Communication	6,0	6,0	0,0	-	8	8,0	0,0
TE	404	Multimedia Communication	6,0	6,0	0,0	-	6	6,0	0,0
TE	405	Digital Speech and Audio Processing	6,0	6,0	0,0	-	6	6,0	0,0
TE	407	Computer Vision	6,0	5,0	1,0	-	8	6,7	1,3
TE	409	Signal Processing Design and Implementation	6,0	4,0	2,0	-	8	5,3	2,7
TE	410	Information and Coding Theory	6,0	5,0	1,0	-	6	5,0	1,0
TE	412	Wireless Communications	6,0	4,0	2,0	-	6	4,0	2,0
TE	480	Special Topics in Telecommunications	6,0	6,0	0,0	-	6	6,0	0,0
VA	333	Web Design	6,0	0,0	0,0	-	6	0,0	0,0
VA	444	Interaction Design	6,0	3,0	3,0	-	6	3,0	3,0
VA	455	Physical Computing	6,0	3,0	3,0	-	6	3,0	3,0