

Transfer of Credits

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N.B. The information below is a general guideline to help in assessing the equivalence of courses for students transferring from local universities in Lebanon to LAU. Please note that this guideline is not binding on the academic departments, as they may have additional factors to bring to the assessment of equivalence

<u>Rafic Hariri University</u>					<u>LebaneseAmericanUniveristy</u>	
Arabic			-			
Course No.	Course Title	Credits	Subject	Course #	Title	Credits
ARAB 160	Survey in Arabic Heritage	3 credits	ELEC	100	Freshman Elective	3
ARAB 170	Basics of Arabic Grammar	3 credits	ELEC	100	Freshman Elective	3
ARAB 180	Arabic Reading and Writing	3 credits	ARA	101	Arabic Essay Read. & Writ. I	3
ARAB 300	Business Arabic	3 credits	ELEC	200	Elective	3
ARAB 330	Elementary Arabic	3 credits	ELEC	200	Elective	3

Course No.	Course Title	Credits
BADM 200	Introduction to Management	3 credits
BADM 202	Business Math	3 credits
BADM 206	Organizational Behavior	3 credits
BADM 207	Business Law	3 credits
BADM 220	Business Math and Statistics	3 credits
BADM 222	Management and Marketing Review	3 credits
BADM 300	Business Systems	3 credits
BADM 302	Human Resource Management	3 credits
BADM 307	Labor Law and Relations	3 credits
BADM 310	Business Statistics	3 credits
BADM 330	Project Management	3 credits
BADM 368	Entrepreneurship	3 credits
BADM 395	Independent Studies	1-3credits
BADM 399	CO-OP Work Experience	3 credits
BADM 401	Operations Management	3 credits
BADM 411	Leadership	3 credits
BADM 415	E-Business	3 credits
BADM 435	Quality Management	3 credits
BADM 460	Strategic Management	3 credits
BADM 470	Health Care Systems and Management	3 credits
BADM 490	Senior Project	3 credits
BADM 500	Quantitative Analysis and Business Research	3 credits
BADM 510	Entrepreneurship and Investment Capital	3 credits
BADM 590	Research Project	3 credits

Subject	Course #	Title	Credits
MGT	201	Introduction to Management	3
ELEC	200	Elective	3
MGT	301	Organizational Behavior	3
BUS	213	Business Law and Ethics	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
MGT	441	Human Resources Management	3
MGT	450	Special Topics in Management	3
QBA	201	Managerial Statistics	3
MGT	401	Project Management	3
FEM	301	Entrepren. & Small Bus. Mgt.	3
ELEC	200	Elective	3
MGT	399	Management Internship	1
OPM	301	Operation and Production Mgt.	3
MGT	301	Organizational Behavior	3
ELEC	200	Elective	3
ELEC	200	Elective	3
MGT	450	Special Topics in Management	3
MGT	450	Special Topics in Management	3
ELEC	200	Elective	3
BUS	311	Research Methods	3
FEM	333	Venture Cap. & Entrepr. Fin.	3
ELEC	200	Elective	3

Course No.	Course Title	Credits	
BCOP 222	Business Computing Essentials	3 credits	
BCOP 306	Internet and web Programming	3 credits	
	Introduction to Programming and		
BCOP 331	Programming Logic	3 credits	
BCOP 332	Database Management	3 credits	
	The Development Tools of Information		
BCOP 371	Systems	3 credits	
BCOP 395	Independent Studies	1-3 credits	
BCOP 415	Advanced Networking	3 credits	
BCOP 426	Advanced C ++	3 credits	
BCOP 444	Networking	3 credits	
BCOP 450	Programming Language	3 credits	
MIST 433	Technology Project Management	3credits	

Subject	Course #	Title	Credits
ELEC	200	Elective	3
ITM	398	IT Emerging Topics	3
ITM	201	Computer Programming	3
ITM	302	Data and Information Mgt.	3
ITM	420	System Analysis and Design	3
ITM	398	IT Emerging Topics	3
ITM	398	IT Emerging Topics	3
ELEC	200	Elective	3
ITM	301	Business Data Communication	3
ELEC	200	Elective	3
ITM	403	Information Tech. Project Mgt.	3

Course No.	Course Title	Credits
BFIN 230	Financial Accounting I	3 credits
BFIN 231	Financial Accounting II	3 credits
BFIN 233	Financial Accounting	3 credits
BFIN 330	Financial Management	3 credits
BFIN 333	Personal Finance	3 credits
BFIN 340	Cost Accounting I	3 credits
BFIN 341	Intermediate Accounting I	3 credits
BFIN 344	Management Accounting	3 credits
BFIN 395	Independent Studies	1-3 credit
BFIN 440	Cost Accounting I	3 credits
BFIN 441	Intermediate Accounting II	3 credits
BFIN 451	Financial Markets and Institutions	3 credits
BFIN 453	Auditing	3 credits
BFIN 456	Advanced Financial Accounting	3 credits
BFIN 470	Taxation	3 credits
BFIN 500	Advanced Accounting Theory	3 credits
BFIN 501	Advanced Financial Management	3 credits
BFIN 505	Portfolio Theory and Investment Analysis	3 credits
BFIN 510	International Business Finance	3 credits
BFIN 511	Taxation Systems in the Middle East	3 credits
BFIN 515	Bank Management	3 credits

Subject	Course #	Title	Credits
ELEC	200	Elective	3
ACC	203	Financial Accounting	3
ELEC	200	Elective	3
FIN	301	Managerial Finance	3
ELEC	200	Elective	3
ACC	204	Managerial Accounting	3
ACC	311	Intermediate Accounting I	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ACC	302	Cost Accounting	3
ACC	312	Intermediate Accounting II	3
FIN	302	Financial Institut. & Markets	3
ACC	412	External Auditing	3
ACC	401	Advanced Accounting	3
ACC	415	Tax Accounting	3
ELEC	200	Elective	3
FIN	413	Corporate Finance	3
FIN	411	Security Analysis & Port. Mgt.	3
FIN	322	Global Financial Management	3
ELEC	200	Elective	3
FIN	311	Banking Operations	3

Biology						
Course No.	Course Title	Credits	Subject	Course #	Title	Credits
BIOL 102	Introduction to Biology	3 credits	BIO	101	Introd. to Biological Sci.	4
BIOL 170	Basic Concepts in Biology	3 credits	BIO	101	Introd. to Biological Sci.	4
BIOL 220	Human Anatomy and Physiology	3 credits	BIO	343	Anatomy & Physiology	3
BIOL 211	General Biology	3 credits	BIO	201	General Biology I	4
BIOM 310	Biomedical Sensors	3 credits	ELEC	200	Elective	3
BIOM 311	Biomedical Instrumentation Design	3 credits	ELEC	200	Elective	3
BIOM 337	Biomedical Engineering Design I	3 credits	ELEC	200	Elective	3
BIOM 338	Biomedical Engineering Design Lab I	1 credit	ELEC	200	Elective	1
BIOM 399	CO-OP Work Experience	3 credits	ELEC	200	Elective	3
BIOM 431	Principles of Electronics Circuit Design	3 credits	ELEC	200	Elective	3
BIOM 432	Medical Imaging	3 credits	ELEC	200	Elective	3
BIOM 433	Biofluid Mechanics	3 credits	PHY	301	Classical Physics for Life Sc.	3
BIOM 438	Biomedical Engineering Design Lab. II	3 credits	ELEC	200	Elective	3
BIOM 443	Bioengineering Neurology	3 credits	BIO	489	Seminar in Biology	1
BIOM 453	Neuromotor Control	3 credits	BIO	489	Seminar in Biology	1
BIOM 457	Advanced Biomedical Instrumentation	3 credits	ELEC	200	Elective	3

BIOM 458	Clinical Laboratory Instrumentation	3 credits	ELEC	200	Elective	3
	Radio Frequency Applications in Biomedical			200	Elective	3
BIOM 459	Engineering	3 credits	ELEC	200	Elective	3
BIOM 460	Human Physiology I	3 credits	BIO	343	Anatomy & Physiology	3
BIOM 461	Human Physiology II	3 credits	BIO	343	Anatomy & Physiology	3
BIOM 462	Analysis of Physiological Models	3 credits	ELEC	200	Elective	3
	Advanced Topics in Biomedical			200	Florting	3
BIOM 463	Instrumentation	3 credits	ELEC	200	Elective	3
BIOM 465	Biomedical Signal Processing	3 credits	ELEC	200	Elective	3
BIOM 467	Advanced Biomedical Signal Processing	3 credits	ELEC	200	Elective	3
	Multidimensional Biomedical Time Series			200	Elective	3
BIOM 469	Analysis	3 credits	ELEC	200	Elective	3
				200	Florting	3
BIOM 471	Advanced Topics in Biomedical Computing	3 credits	ELEC	200	Elective	3
	Rehabilitation Engineering: Prosthetics,			200	Elective	3
BIOM 472	Orthotics, Seating and Positioning	3 credits	ELEC	200	Elective	3
BIOM 473	Bioelectric Phenomena	3 credits	ELEC	200	Elective	3
BIOM 480	Biomedical Servicing	3 credits	ELEC	200	Elective	3
BIOM 490	BS Project	3 credits	BIO	499	Senior Study - Biology	3
BIOM 510	Advanced Therapeutic Devices	3 credits	ELEC	200	Elective	3
BIOM 520	Health-care Facility Management	3 credits	ELEC	200	Elective	3
BIOM 525	Clinical Engineering	3 credits	ELEC	200	Elective	3
BIOM 530	Computer Simulations for Life Sciences	3 credits	ELEC	200	Elective	3
				200	Florting	3
BIOM 540	Advanced Bio-signal and Image Processing	3 credits	ELEC	200	Elective	3
BIOM 545	Advanced Medical Imaging	3 credits	ELEC	200	Elective	3
BIOM 550	Microcontrollers and Embedded Systems	3 credits	ELEC	200	Elective	3
BIOM 565	Introduction to E-Health Care	3 credits	ELEC	200	Elective	3
BIOM 570	Biomaterials	3 credits	ELEC	200	Elective	3
BIOM 575	Bio-fluids	3 credits	ELEC	200	Elective	3
BIOM 580	Bio-engineering seminar	3 credits	ELEC	200	Elective	3
	Advanced Topics in Bioelectronics			200	Elective	3
BIOM 597	Engineering	3 credits	ELEC	200	Elective	3

Marketing_						
Course No.	Course Title	Credits				
BMKT 261	Introduction to Marketing	3 credits				
BMKT 360	Marketing Research	3 credits				
BMKT 363	Sales Management	3 credits				
BMKT 395	Independent Studies	1-3 credits				
BMKT 462	Event Marketing and Management	3 credits				
BMKT 464	Consumer Behavior	3 credits				
BMKT 465	Strategic Marketing	3 credits				
BMKT 466	Service Marketing	3 credits				
BMKT 467	Advertising Theories and Strategies	3 credits				
BMKT 500	Consumer Driven Marketing	3 credits				
BMKT 505	Branding and Franchising	3 credits				

Subject	Course #	Title	Credits
MKT	201	Introduction to Marketing	3
MKT	421	Marketing Research	3
MKT	488	Topics in Marketing	3
ELEC	200	Elective	3
MKT	488	Topics in Marketing	3
MKT	304	Consumer Behavior	3
MKT	498	Marketing Strategy	3
MKT	305	Services Marketing	3
MKT	302	Integrated Marketing Com.	3
MKT	488	Topics in Marketing	3
MKT	488	Topics in Marketing	3

Course No. Course Title Credits						
Course No.		Credits				
CCEE 210	Logic Design	3credits				
CCEE 211	Logic Design Lab	1 credit				
CCEE 312	Microprocessors and Microcontrollers	3credits				
CCEE 313	Computer Architecture	3credits				
CCEE 320	Signals and Systems	3credits				
CCEE 321	Communication Systems	3credits				
CCEE 330	Signal Processing	3credits				
CCEE 399	Co-op Work Experience	4 credits				
CCEE 414	Design of Embedded Systems	3credits				
CCEE 415	Communication and Networks Labs	2 credits				
CCEE 422	Communication Networks	3credits				
CCEE 442	Database Management Systems	3credits				
CCEE 443	Software Engineering	3credits				
CCEE 444	Operating System	3credits				
CCEE 445	Optics and Laser	3credits				
CCEE 446	Mobile Communication	3credits				
CCEE 448	Introduction to Antenna Theory	3credits				
CCEE 452	Computer Vision	3credits				
CCEE 466	introduction to Optical Communication	3credits				
CCEE 453	Multimedia Systems	3credits				
CCEE 461 CCEE 480	Internet Engineering and Web Programming Fundamentals of Nanotechnology	3credits				
CCEE 485	Digital communication	3credits				
CCEE 490	BS Project	3credits				
CCEE 498	Special Topics in Computer and Communication Engineering	3credits				
CCEE 516	Advanced Computer Architecture	3credits				
CCEE 517	Satellite Communication Systems	3credits				
CCEE 518	Computer Network Security	3credits				
CCEE 523	Antennas and Propagation	3credits				
CCEE 522	Advanced Communication Systems	3credits				
CCEE 525	Wireless Communication	3credits				
CCEE 526	Microwave Communication	3credits				
CCEE 529	Advanced Mobile Communications	3credits				
CCEE 550	Optoelectronic Devices	3credits				
CCEE 551	Digital Signal Processing	3credits				
CCEE 560	Optical Networks Design	3credits				
CCEE 580	Nanotechnology Devices and Applications	3credits				
CCEE 581	Digital Image Processing	3credits				
CCEE 585	Antenna Processing	3credits				
CCEE 583	Robotics	3credits				
CCEE 597	Advanced Topics in Computer and Communication Engineering	3credits				

Subject	Course #	Title	Credits
ELEC	200	Elective	3
ELEC	200	Elective	1
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	4
ELEC	200	Elective	3
ELEC	200	Elective	2
ELEC	200	Elective	3
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ELEC	200	Elective	3

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Course Title	Credits		
Chemistry I	4credits		
Chemistry II	4credits		
Environmental Chemistry	3credits		
General Chemistry	3credits		
	Chemistry I Chemistry II Environmental Chemistry		

Subject	Course #	Title	Credits
CHM	101	General Chemistry	4
CHM	101	General Chemistry	4
CHM	340	Environmental Chemistry	3
CHM	201	Chemical Principles	3

Course No.	Course Title	Credits
CIVE 212	Statics	3credits
CIVE 310	Surveying, Photogrammetry and Geodesy	3credits
CIVE 325	Transportation Engineering	3credits
CIVE 330	Construction Materials	3credits
CIVE 331	Sanitary Engineering	3credits
CIVE 350	Structural Analysis I	3credits
CIVE 370	Concrete I	3credits
CIVE 399	Co-op Work Experience	4 credits
CIVE 410	Civil Engineering Lab	3credits
CIVE 421	Soil Mechanics	3credits
CIVE 422	Foundation Engineering	3credits
CIVE 430	Hydraulics	3credits
CIVE 440	Construction Planning and Scheduling	3credits
CIVE 450	Environmental Engineering	3credits
CIVE 461	Plans and Specifications	3credits
CIVE 470	Concrete II	3credits
CIVE 480	Computer Methods in Civil Engineering	3credits
CIVE 481	Bridge Engineering	3credits
CIVE 490	BS Project	3credits
CIVE 498	Special Topics in Civil Engineering	3credits
CIVE 510	Engineering Risk Analysis	3credits
CIVE 520	Steel Structures	3credits
CIVE 521	Tall Building Structures	3credits
CIVE 530	Concrete Technology	3credits
CIVE 533	Admixtures for Concrete	3credits
CIVE 534	Special Concretes	3credits
CIVE 535	Prestressed Concrete	3credits
CIVE 537	Composite Construction	3credits
CIVE 540	GIS for Civil Engineering	3credits
CIVE 543	Durability of Construction Materials	3credits
CIVE 545	Infrastructure Asset Management	3credits
CIVE 550	Structural Analysis II	3credits
CIVE 554	Structural Dynamics	3credits
CIVE 555	Seismic Design	3credits
CIVE 560	Finite Elements Analysis	3credits
CIVE 570	Repair of Concrete Structures	3credits
CIVE 580	Pavement Design	3credits
CIVE 585	Highway Design	3credits
CIVE 590	Water Quality	3credits
CIVE 595	Special Structures	3credits
CIVE 597	Advanced Topics in Civil Engineering	3credits

Subject	Course #	Title	Credits
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
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ELEC	200	Elective	3
ELEC	200	Elective	4
ELEC	200	Elective	3
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ELEC	200	Elective	3

Communication
Course No.
CMNS 301
CMNS 310
CMNS 320 Credits 3credits 3credits Course # Title 200 Elective 200 Elective Course Title Subject Credits Mass Media Essentials Elective Persuasion Creative Nonfiction Elective 3credits Elective Arab & International Media 330 330 JSC COM CMNS 330 3credits Arab and International Media Arab and International Media JSC CMNS 340 News Writing & Reporting in a multimedia World Report. & Writ. for News Media Media and Public Relations Writing 3credits СОМ 214 Peace Communication: Media and Conflict 200 Elective CMNS 401 CMNS 410 3credits 3credits Resolution Public Speaking Elective

Course No.	Course Title	Credits
COGD 203	Introduction to Graphics Design	3credits
COGD 205	Type I, 3 credits	3credits
COGD 220	Computer I Illustrator/ Photoshop	3credits
	Computer II Illustrator/ Photoshop/In	
COGD 222	Design	3credits
COGD 225	Theatre	3credits
COGD 230	Photography I	3credits
COGD 300	Illustration	3credits
COGD 305	Type II	3credits
COGD 306	Type III	3credits
COGD 310	Design I	3credits
COGD 311	Design II	3credits
COGD 330	Photography II	3credits
COGD 331	Digital Processing	3credits
COGD 335	Production	3credits
COGD 345	History of Graphic Design	3credits
COGD 355	Calligraphy	3credits
COGD 360	Visual Perception	3credits
COGD 381	Bookbinding	3credits
COGD 402	Silkscreen	3credits
COGD 403	Painting	3credits
COGD 409	Design Writing Research	3credits
COGD 410	Copywriting	3credits
COGD 411	Design III	3credits
COGD 412	Design IV	3credits
COGD 414	Design 5	3credits
COGD 423	Computer III (After Effects/Flash)	3credits
COGD 424	Computer IV (Introduction to Web Design)	3credits
COGD 431	Critical Theory	3credits
COGD 450	Branding and Advertising	3credits
COGD 452	Digital Illustration	2credits

Subject	Course #	Title	Credits
ELEC	200	Elective	3
GRA	212	Introduction to Typography	3
FND	251	Digital Media	3
GRA	301	Intermediate Computer Graphics	3
ELEC	200	Elective	3
PHO	211	Photography I	3
GRA	342	Art of Illustration	3
GRA	324	Intermediate Typography	2
GRA	411	Advanced Typography	3
GRA	351	Graphic Design I	3
GRA	352	Graphic Design II	3
PHO	212	Photography II	3
ELEC	200	Elective	3
GRA	312	Printing Variables	3
GRA	431	History of Graphic Design	3
GRA	341	Art of Calligraphy	3
GRA	432	Visual Perception	3
ELEC	200	Elective	3
GRA	345	Silk Screen & Binding	3
ART	341	Painting I	3
GRA	462	Graphic Design Seminar	3
ELEC	200	Elective	3
GRA	451	Graphic Design III	3
GRA	499	Senior Study Project	3
ELEC	200	Elective	3
GRA	302	Advanced Computer Graphics	3
GRA	486	Advanced Interactive Design	3
ELEC	200	Elective	3
GRA	455	Advertising Design	3
ELEC	200	Elective	2

Computer Science				
Course No.	Course Title	Credits		
COSC 200	Computer Technology	3credits		
COSC 221	Programming I	3credits		
COSC 222	Programming II	3credits		
COSC 321	Data Structures and Algorithm	3credits		
COSC 323	Programming Languages	3credits		
COSC 331	Database Management Systems	3credits		
COSC 333	Web Programming	3credits		
COSC 351	Logic Design	3credits		
COSC 352	Microprocessors and Microcontrollers	3credits		
COSC 361	Networking I	3credits		

Subject	Course #	Title	Credits
CSC	201	Computer Applications	1
CSC	243	Intr. Object Oriented Program	3
CSC	245	Objects & Data Abstraction	3
CSC	321	Data Structures & Algorithms	3
ELEC	200	Elective	3
CSC	375	Database Management Systems	3
ELEC	385	CSC Technical Elective	3
CSC	323	Digital Systems Design	3
CSC	320	Computer Organization	3
CSC	430	Computer Networks	3

COSC 399	CO-OP Work Experience	3credits
COSC 421	Theory of Computation	3credits
COSC 422	Advanced Data Structure and Algorithms	3credits
COSC 423	Object Oriented Programming	3credits
COSC 424	Compiler Design	3credits
COSC 425	Flash Technology	3credits
COSC 450	Java Programming	3credits
COSC 451	Operating Systems	3credits
COSC 462	Networking II	3credits
COSC 470	Search Engine Optimization	3credits
COSC 481	Artificial Intelligence	3credits
COSC 473	Developing Mobile Applications	3credits
COSC 498	Special Topics	3credits
COSC 490	Senior Project	3credits
CMPT 384	Visual Basic	3credits
CMPT 436	Web Programming and Design	3credits

CSC	491	Professional Experience	1
ELEC	385	CSC Technical Elective	3
ELEC	385	CSC Technical Elective	3
ELEC	200	Elective	3
ELEC	385	CSC Technical Elective	3
ELEC	385	CSC Technical Elective	3
CSC	243	Intr. Object Oriented Program	3
CSC	326	Operating Systems	3
ELEC	385	CSC Technical Elective	3
ELEC	385	CSC Technical Elective	3
CSC	460	Artificial Intelligence	3
ELEC	385	CSC Technical Elective	3
CSC	498	Top.CSC:Functional Programming	3
CSC	599	Capstone Project	3
ELEC	200	Elective	3
CSC	443	Web Programming	3

Civilization				
Course No.	Course Title	Credits		
CVLN 160	Monotheistic religions: a comparative study	3credits		
CVLN 161	The Arabs	3credits		
CVLN 170	God and Creation: East and West	3credits		
CVLN 180	Youth and the Growing Up Process	3credits		
CVLN 181	Arab Renaissance	3credits		
CVLN 190	Freshman ArtHistory	3credits		
CVLN 301	Civilization Studies I	3credits		
CVLN 302	Civilization Studies II	3credits		
CVLN 303	Civilization Studies III	3credits		

Subject	Course #	Title	Credits
ELEC	100	Freshman Elective	3
ELEC	100	Freshman Elective	3
ELEC	100	Freshman Elective	3
ELEC	100	Freshman Elective	3
ELEC	100	Freshman Elective	3
ELEC	100	Freshman Elective	3
CST	201	Cultural Studies I	3
CST	202	Cultural Studies II	3
CST	203	Cultural Studies III	3

Economics		
Course No.	Course Title	Credits
ECON 190	Introduction to Economics	3credits
ECON 311	Microeconomics	3credits
ECON 312	Macroeconomics	3credits
ECON 333	Microeconomics and Macroeconomics	3credits
ECON 407	Managerial Economics	3credits
ECON 500	Business and Managerial Economics	3credits
ECON 505	Globalization and International Business	3credits
ECON 506	Monetary Theory	3credits
ECON 510	Environmental Economics	3credits

Subject	Course #	Title	Credits
ECO	101	Survey of Economics	3
ECO	201	Micro Economics	3
ECO	202	Macro Economics	3
ELEC	200	Elective	3
ECO	301	Managerial Economics	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ECO	420	Monetary Theory & Policy	3
ECO	320	Environ., Res., & Energy Eco.	3

Course No.	Course Title	Credits
ELEC 210	Electrical Circuits	3credits
ELEC 211	Electrical Circuits Lab	1 credit
ELEC 320	Electronics	3credits
ELEC 321	Electronics Lab	1 credit
ELEC 340	Engineering Electromagnetics	3credits
ELEC 341	Measurement and Instrumentation	3credits
ELEC 350	Power Systems	3credits
ELEC 401	Modeling and Simulation	3credits
ELEC 410	Electronic Properties of Material	3credits
ELEC 411	Electric Machines	3credits
ELEC 412	Power Electronics	3credits
	Controls, Measurement and Embedded	
ELEC 414	Systems Lab	3credits
ELEC 415	Electric Power Lab	2 credits
ELEC 420	Introduction to Renewable Energy Systems	3credits
ELEC 430	Electrical System Design	3credits
ELEC 440	Switching	3credits
ELEC 442	High Voltage Engineering	3credits
ELEC 444	Electrical Power Distribution	3credits
ELEC 445	Power System Protection	3credits
ELEC 450	Electronic Circuit Design	3credits
ELEC 452	Switched Mode Power Supply Design	3credits
ELEC 453	Electromagnetic Compatibility	3credits
ELEC 471	Control Systems, 3 credits	3credits
DDDG 171	Computer Aided Design for Electrical	bereares
ELEC 472	Engineers	3credits
ELEC 490	BS Project	3credits
ELEC 498	Special Topics in Electrical Engineering	3credits
ELEC 530	Nonlinear Adaptive Control	3credits
ELEC 530	Advanced Control Systems	3credits
EBEC 331	Lasers and Laser Applications in	Scredits
ELEC 560	Engineering	3credits
ELEC 572	Advanced Power System Analysis	3credits
ELEC 580	Advanced Power Electronics	3credits
ELEC 581	Advanced Electric Machines and Drives	3credits
LLLC JUI	Finite Elements for Electromagnetic	Jereures
ELEC 586	Application	3credits
ELEC 587	Artificial Neural Systems	3credits
ELEC 588	Renewable Energy Systems	3credits
ELEC 589	Advanced Electric Lab	3credits
ELEC 307	Application of Power Electronic in Power	Jereuits
ELEC 599	Systems	3credits

Subject	Course #	Title	Credits
ELE	201	Electrical Circuits I	3
ELEC	200	Elective	1
ELEC	200	Elective	3
ELEC	200	Elective	1
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	2
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
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ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3
ELEC	200	Elective	3

Course No.	Course Title	Credits
ENGL 101	Freshman English	3credits
ENGL 203	Introduction to English Drama	3credits
ENGL 210	English Composition and Rhetoric	3credits
ENGL 211	Business Communication Skills	3credits
ENGL 212	Technical Communication Skills	3credits
ENGL 213	Creative Writing	3credits
ENGL 214	Introduction to English Poetry	3credits
ENGL 215	Introduction to American Literature	3credits
ENGL 216	Beginning Translation	3credits
ENGL 217	Professional English Writing	3credits
ENGL 220	Introduction to Literature	3credits
ENGL 230	Shakespeare's Plays	3credits

Subject	Course #	Title	Credits
ENG	101	Academic English I	3
ENG	323	Renaissance Drama	3
ENG	102	Academic English II	3
BUS	202	Business Communication	3
ELEC	200	Elective	3
ENG	366	Creative Writing	3
ENG	331	Poetry Writing	3
ENG	352	20th-Century American Novel	3
ELEC	200	Elective	3
ENG	102	Academic English II	3
ENG	216	Introduction to Literature	3
ENG	323	Renaissance Drama	3

General Engineering

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Course No. ENGR 200	Course Title Engineering for the Community	Credits 3 credit	Subject ELEC	Course #	Title Elective	Credits 3
NGR 200	Introduction to Engineering	1 credit	ELEC	200	Elective	1
NGR 210	Engineering Graphics and CAD	2 credits	ELEC	200	Elective	2
NGR 211	Advanced CAD	1 credit	ELEC	200	Elective	1
			1		(m) . v	1
ine Arts Course No.	Course Title	Credits	Subject Subject	Course #	Title	Credits Credits
ADR 200	Drawing I	3credits	ART	221	Drawing I	3
ADR 202	Drawing II	3credits	ART	222	Drawing II	3
FADR 210	Rendering and Perspective Techniques	3credits	ELEC	200	Elective	3
ADR 215	History of Art	3credits	ART	431	Modern Art	3
ADR 220	Fundamentals of 2D Design Fundamentals of 3D Design	3credits	FND	231	Design Studio I-A Design Studio I-B	3
FADR 222	Fundamentals of 3D Design	3credits	FND	232	Design Studio I-B	3
anguages						
Course No.	Course Title	Credits	Subject	Course #	Title	Credits
REN 350	Advanced French Writing and Grammar	3credits	ELEC	200	Elective	3
EOL 160	Earth Geology	3credits	ELEC	100	Freshman Elective	3
EOL 300 ERM 300	Human Geography: People and Culture	3credits 3credits	ELEC GER	200	Elective Beginning German	3
ERM 300	German I German II	3credits	GER	201	German II	3
APN 300	Japanese I	3credits	ELEC	200	Elective	3
APN 301	Japanese II	3credits	ELEC	200	Elective	3
PAN 300	Spanish I	3credits	SPA	201	Beginning Spanish	3
PAN 301	Spanish II	3credits	SPA	202	Spanish II	3
listory						
Course No.	Course Title	Credits	Subject	Course #	Title	Credits
IIST 100	History of the Ancient World	3credits	HST	101	20th Cent. Hist./Leb. & Region	3
	Europe from the Reformation to the French		HST			3
IIST 102	Revolution	3credits		101	20th Cent. Hist./Leb. & Region	
IIST 103	Europe in the 19th and 20th Centuries	3credits	HST	101	20th Cent. Hist./Leb. & Region	3
HST 100	Issues and Themes in U.S. History: 1607- 1877	2 crodite	HST	101	20th Cent. Hist./Leb. & Region	3
HIST 108	1077	3credits	l l	101	Loui cent. mat/ μευ. α Region	
HIST 350	History of the Arabs in the Classical Period	3credits	HST	240	History of the Arab Peoples	3
HIST 360	Contemporary History	3credits	HST	305	Contemporary Europe, 1945-1989	3
HST 365	History of Europe in the Middle East	3credits	HST	242	Europe and the Middle East, 1798-1925	3
	The Economic and Social History of the		HST			3
HIST 370	Middle East	3credits		243	Economic History of the Middle East	
nternational Bu	cinece					
Course No.	Course Title	Credits	Subject	Course #	Title	Credits
BUS 421	International Business and Marketing	3credits	IBS	311	Manag. Multinat'l Corporation	3
BUS 440	International Trade Law	3credits	ELEC	200	Elective	3
BUS 450	Islamic Economics and Banking	3credits	ELEC	200	Elective	3
# - 4 h 4 i						
Mathematics Course No.	Course Title	Credits	Cubicat	Course #	Title	Credits
MATH 185	Introduction to Probability and Statistics	3credits	Subject ELEC	100	Freshman Elective	3
MATH 189	Freshman Arts Calculus	3credits	MTH	111	Basic Mathematics	3
MATH 190	Freshman Calculus I	3credits	MTH	101	Calculus I	3
MATH 191	Freshman Calculus II	3credits	MTH	102	Calculus II	3
MATH 207	Calculus for the Social Sciences	3credits	ELEC	200	Elective	3
MATH 208 MATH 211	Calculus Calculus I	3credits 3credits	ELEC MTH	200	Elective Calculus III	3
MATH 212	Calculus II	3credits	MTH	206	Calculus IV	3
MATH 311	Linear Algebra with Applications	3credits	MTH	301	Linear Algebra	3
MATH 314	Ordinary Differential Equations	3credits	MTH	304	Differential Equations	3
MATH 351	Probability and Statistics	3credits	MTH	305	Probability and Statistics	3
MATH 411	Numerical Analysis	3credits	MTH	207	Numerical Methods	3
MATH 421 MATH 510	Advanced Engineering Mathematics	3credits 3credits	MTH ELEC	303 200	Numerical Methods Elective	3
MATH 511	Advanced Numerical Analysis	3credits	MTH	498	Topics in Mathematics	3
	Tavaneea Wamerlea Thaiyoo	ocreans			se by case basis	15
<u> 1echatronics En</u>	gineering				·	
Course No.	Course Title	Credits	Subject	Course #		Credits
MECA 331	Dynamic Systems: Modeling and Analysis	3credits	ELEC	200	Elective	3
MECA 341	Instrumentation and Measurements	3credits	ELEC	200	Elective	3
MECA 399 MECA 415	CO-OP Work Experience, Mechatronics System Design Laboratory	4 credits 1 credit	ELEC ELEC	200	Elective Elective	1
MECA 432	CAD/CAM/CAE	3credits	ELEC	200	Elective	3
MECA 433	Introduction to Robotics	3credits	ELEC	200	Elective	3
	Sensors and Actuators	3credits	ELEC	200	Elective	3
					Elective	3
MECA 447	Microcontrollers	3credits	ELEC	200		
MECA 447 MECA 465	Microcontrollers Programmable Logic Controllers (PLCs)	3credits	ELEC	200	Elective	3
MECA 447 MECA 465 MECA 475	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design	3credits 3credits	ELEC ELEC	200 200	Elective Elective	3
MECA 441 MECA 447 MECA 465 MECA 475 MECA 490	Microcontrollers Programmable Logic Controllers (PLCs)	3credits	ELEC	200 200 200	Elective Elective Elective	3 3 3
MECA 447 MECA 465 MECA 475 MECA 490 MECA 498	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering	3credits 3credits 3credits	ELEC ELEC ELEC	200 200 200 200	Elective Elective Elective Elective	3 3 3 3
MECA 447 MECA 465 MECA 475 MECA 490 MECA 498 MECA 515	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems	3credits 3credits 3credits 3credits 3credits	ELEC ELEC ELEC ELEC	200 200 200 200 200	Elective Elective Elective Elective Elective	3 3 3 3
MECA 447 MECA 465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 520	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems	3credits 3credits 3credits 3credits 3credits 3credits	ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200	Elective Elective Elective Elective Elective Elective	3 3 3 3 3 3
MECA 447 MECA 465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 520 MECA 531	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms	3credits 3credits 3credits 3credits 3credits 3credits 3credits 3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200	Elective Elective Elective Elective Elective Elective Elective Elective	3 3 3 3 3 3 3
MECA 447 MECA 465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 520 MECA 531 MECA 531 MECA 535	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200	Elective Elective Elective Elective Elective Elective Elective Elective Elective	3 3 3 3 3 3 3 3
MECA 447 MECA 465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 520 MECA 531 MECA 531 MECA 535 MECA 560	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3
MECA 447 MECA 445 MECA 475 MECA 475 MECA 490 MECA 498 MECA 515 MECA 520 MECA 531 MECA 535 MECA 536 MECA 566 MECA 565	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Compliant Mechanisms	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective Elective Elective Elective Elective Elective Elective Elective Elective	3 3 3 3 3 3 3 3 3 3
MECA 447 MECA 447 MECA 465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 515 MECA 520 MECA 531 MECA 531 MECA 566 MECA 566 MECA 565 MECA 567 MECA 575	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Compliant Mechanisms Advanced Mechatronics System Design	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MECA 447 MECA 447 MECA 465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 515 MECA 520 MECA 531 MECA 531 MECA 565 MECA 565 MECA 565 MECA 567 MECA 575	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Compliant Mechanisms Advanced Mechatronics System Design Advanced Robotics	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3
MECA 447 MECA 447 MECA 4465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 520 MECA 520 MECA 531 MECA 535 MECA 560 MECA 560 MECA 567 MECA 575 MECA 575 MECA 575 MECA 585	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Gompliant Mechanisms Advanced Mechatronics System Design Advanced Robotics Advanced Topics in Mechatronics	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MECA 447 MECA 447 MECA 4465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 520 MECA 520 MECA 531 MECA 535 MECA 560 MECA 560 MECA 567 MECA 575 MECA 575 MECA 575 MECA 585	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Compliant Mechanisms Advanced Mechatronics System Design Advanced Robotics	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
IECA 447 IECA 447 IECA 465 IECA 475 IECA 490 IECA 490 IECA 515 IECA 520 IECA 531 IECA 531 IECA 531 IECA 560 IECA 565 IECA 565 IECA 567 IECA 575 IECA 597	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Compliant Mechanisms Advanced Mechatronics System Design Advanced Robotics Advanced Topics in Mechatronics Engineering	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MECA 447 MECA 447 MECA 4465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 515 MECA 520 MECA 531 MECA 531 MECA 536 MECA 560 MECA 560 MECA 565 MECA 565 MECA 565 MECA 575 MECA 575 MECA 597 MECA 597 MECA 597	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Gompliant Mechanisms Advanced Mechatronics System Design Advanced Mechatronics System Design Advanced Topics in Mechatronics Engineering	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
IECA 447 IECA 447 IECA 465 IECA 475 IECA 490 IECA 498 IECA 515 IECA 520 IECA 531 IECA 531 IECA 560 IECA 565 IECA 565 IECA 567 IECA 575 IECA 597 IECA 597 IECA 597 IECA 161 IECA 597 IECA 161 IECA 597 IECA 161 IECA 161 IECA 597 IECA 161 IECA 161 IECA 597 IECA 161 IEC	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Compliant Mechanisms Advanced Mechatronics System Design Advanced Robotics Advanced Topics in Mechatronics Engineering	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MECA 447 MECA 447 MECA 4465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 515 MECA 520 MECA 531 MECA 530 MECA 560 MECA 560 MECA 565 MECA 565 MECA 565 MECA 575 MECA 575 MECA 597 MECA 161	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Compliant Mechanisms Advanced Mechatronics System Design Advanced Robotics Advanced Topics in Mechatronics Engineering neering Course Title Dynamics Materials Science	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 7 Credits
IECA 447 IECA 447 IECA 4465 IECA 475 IECA 490 IECA 498 IECA 515 IECA 520 IECA 535 IECA 530 IECA 560 IECA 560 IECA 565 IECA 567 IECA 585 IECA 587 IECA 587 IECA 5885 IECA 587 IECA 5885 IECA 587 IECA 5885 IECA 5885 IECA 5885	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Compliant Mechanisms Advanced Mechatronics System Design Advanced Robotics Advanced Robotics Advanced Topics in Mechatronics Engineering Recrite Course Title Dynamics Materials Science Mechaniss of Materials	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MECA 447 MECA 447 MECA 465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 515 MECA 520 MECA 531 MECA 531 MECA 530 MECA 565 MECA 565 MECA 565 MECA 575 MECA 585 MECA 597 MECH 212 MECH 212 MECH 211 MECH 231 MECH 231	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Compliant Mechanisms Advanced Mechatronics System Design Advanced Robotics Advanced Topics in Mechatronics Engineering Tourse Title Dynamics Materials Science Mechanics of Materials Mechanism and Dynamics of Machinery	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MECA 447 MECA 447 MECA 447 MECA 465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 520 MECA 520 MECA 535 MECA 560 MECA 560 MECA 565 MECA 565 MECA 575 MECA 575 MECA 597 MECA 120 MECA 120 MECA 121 MECH 212 MECH 211 MECH 211 MECH 211 MECH 231	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Gompliant Mechanisms Advanced Mechatronics System Design Advanced Robotics Advanced Topics in Mechatronics Engineering Course Title Dynamics Materials Science Mechanics of Materials Mechanism and Dynamics of Machinery	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MECA 447 MECA 447 MECA 447 MECA 465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 515 MECA 520 MECA 531 MECA 531 MECA 536 MECA 560 MECA 565 MECA 567 MECA 575 MECA 585 MECA 585 MECA 587 MECA 587 MECA 588 ME	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Compliant Mechanisms Advanced Mechatronics System Design Advanced Robotics Advanced Topics in Mechatronics Engineering Course Title Dynamics Materials Science Mechanics of Materials Mechanical Design I Thermodynamics I	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MECA 447 MECA 447 MECA 4465 MECA 475 MECA 490 MECA 498 MECA 515 MECA 515 MECA 520 MECA 520 MECA 531 MECA 535 MECA 560 MECA 565 MECA 565 MECA 565 MECA 575 MECA 575 MECA 597 MECA 597	Microcontrollers Programmable Logic Controllers (PLCs) Mechatronics Systems Design BS Project Special Topics in Mechatronics Engineering Modern Control Systems Fluid Control Systems Spatial Mechanisms Expert Systems and Applied Intelligence Fault detection and Diagnosis Design of Mechanisms Gompliant Mechanisms Advanced Mechatronics System Design Advanced Robotics Advanced Topics in Mechatronics Engineering Course Title Dynamics Materials Science Mechanics of Materials Mechanism and Dynamics of Machinery	3credits	ELEC ELEC ELEC ELEC ELEC ELEC ELEC ELEC	200 200 200 200 200 200 200 200 200 200	Elective	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

MECH 399	CO-OP Work Experience	4 credits	ELEC	200	Elective	4
MECH 410	Mechanical Engineering Laboratory	3credits	ELEC	200	Elective	3
MECH 430 MECH 432	Design of Mechanisms Mechanical Design II	3credits	ELEC ELEC	200	Elective Elective	3
MECH 433	Introduction to Vibrations and Acoustics	3credits	ELEC	200	Elective	3
MEGII 155	Finite Element Method for Mechanical	Screuits	LBEC			
MECH 434	Engineering	3credits	ELEC	200	Elective	3
	Petroleum Refining Technology for			200	Elective	3
MECH 435	Mechanical Engineering	3credits	ELEC	200	nicetive	3
MEGH 405	Heat Exchangers Design, Performance, and	0 10	PI PO	200	Elective	3
MECH 437 MECH 441	inspection Thermodynamics II	3credits 3credits	ELEC ELEC	200	Floativa	3
MECH 443	Heat Transfer	3credits	ELEC	200	Elective Elective	3
MECH 445	Automotive Engineering	3credits	ELEC	200	Elective	3
MECH 448	Plumbing Engineering	3credits	ELEC	200	Elective	3
MECH 451	Fluid Mechanics II	3credits	ELEC	200	Elective	3
MECH 453	Buildings and Energy	3credits	ELEC	200	Elective	3
MECH 455	Gas Turbines	3credits	ELEC	200	Elective	3
MECH 461 MECH 465	Thermal System Design HVAC	3credits 3credits	ELEC ELEC	200 200	Elective	3
MECH 468	Internal Combustion Engines	3credits	ELEC	200	Elective Elective	3
MECH 470	Product Design and Development	3credits	ELEC	200	Elective	3
MECH 471	Refrigeration	3credits	ELEC	200	Elective	3
MECH 490	BS Project	3credits	ELEC	200	Elective	3
MECH 498	Special Topics in Mechanical Engineering	3credits	ELEC	200	Elective	3
	Advanced Finite Element Method for			200	Elective	3
MECH 510	Mechanical Engineers	3credits	ELEC			
MECH 520	Advanced Metallurgy	3credits	ELEC	200	Elective	3
MECH 521 MECH 522	Mechanics of Composite Materials Advanced Mechanics of Materials	3credits	ELEC ELEC	200	Elective Elective	3
MECH 523	Theory of Plates and Shells	3credits	ELEC	200	Elective	3
MECH 524	Elasticity and Plasticity	3credits	ELEC	200	Elective	3
MECH 525	Advanced Dynamics	3credits	ELEC	200	Elective	3
	Pressure Vessel and Piping Design &			200	Elective	3
MECH 526	Analysis	3credits	ELEC			-
MECH 530	Compliant Mechanisms	3credits	ELEC	200	Elective	3
MECH 540 MECH 541	Combustion Engineering Renewable Energy	3credits	ELEC ELEC	200	Elective	3
MECH 541 MECH 544	Advanced Heat Transfer	3credits	ELEC	200	Elective Elective	3
MECH 545	Solar Energy	3credits	ELEC	200	Elective	3
MECH 550	Advanced Computational Fluid Dynamics	3credits	ELEC	200	Elective	3
MECH 562	Advanced Vibrations and Acoustics	3credits	ELEC	200	Elective	3
MECH 570	Advanced Manufacturing	3credits	ELEC	200	Elective	3
MECH 571	Optimization in Engineering Design	3credits	ELEC	200	Elective	3
MECH 573	Fatigue and Fracture Mechanics Design	3credits	ELEC	200	Elective	3
MECH 579	Turbomachinery	3credits	ELEC	200	Elective	3
MECH 597	Advanced Topics in Mechanical Engineering	3credits	ELEC	200	Elective	3
MEGII 397	Advanced Topics in Mechanical Engineering	Screuits	ELEC	I		II
Philosophy						
Course No.	Course Title	Credits	Subject	Course #	Title	Credits
				Course #	Title	
PHIL 102	Freshman Philosophy	3credits	PHL	101	Introduction to Philosophy	3
PHIL 102 PHIL 110	Freshman Philosophy Critical Thinking	3credits 3credits	PHL PHL	101 210	Introduction to Philosophy Critical and Creative Thinking	3
PHIL 102 PHIL 110 PHIL 301	Freshman Philosophy Critical Thinking Major Trends in Philosophy	3credits 3credits 3credits	PHL PHL PHL	101 210 401	Introduction to Philosophy Critical and Creative Thinking Sp.Top:Love,Hatred,Resentment	3 3 3
PHIL 102 PHIL 110 PHIL 301 PHIL 302	Freshman Philosophy Critical Thinking Major Trends in Philosophy Introduction to Formal Logic	3credits 3credits 3credits 3credits	PHL PHL PHL PHL	101 210 401 211	Introduction to Philosophy Critical and Creative Thinking Sp.Top:Love,Hatred,Resentment Symbolic Logic	3 3 3 3
PHIL 102 PHIL 110 PHIL 301 PHIL 302 PHIL 303	Freshman Philosophy Critical Thinking Major Trends in Philosophy Introduction to Formal Logic Introduction to Ethics	3credits 3credits 3credits 3credits 3credits	PHL PHL PHL PHL PHL PHL	101 210 401 211 301	Introduction to Philosophy Critical and Creative Thinking Sp.Top:Love,Hatred,Resentment Symbolic Logic Ethics	3 3 3 3 3
PHIL 102 PHIL 110 PHIL 301 PHIL 302 PHIL 303 PHIL 307	Freshman Philosophy Critical Thinking Major Trends in Philosophy Introduction to Formal Logic Introduction to Ethics Business Ethics	3credits 3credits 3credits 3credits 3credits 3credits	PHL PHL PHL PHL	101 210 401 211	Introduction to Philosophy Critical and Creative Thinking Sp.Top:Love,Hatred,Resentment Symbolic Logic Ethics Elective	3 3 3 3
PHIL 102 PHIL 110 PHIL 301 PHIL 302 PHIL 303	Freshman Philosophy Critical Thinking Major Trends in Philosophy Introduction to Formal Logic Introduction to Ethics	3credits 3credits 3credits 3credits 3credits	PHL PHL PHL PHL PHL ELEC	101 210 401 211 301 200	Introduction to Philosophy Critical and Creative Thinking Sp.Top:Love,Hatred,Resentment Symbolic Logic Ethics	3 3 3 3 3 3
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SWET 420 SWET 421 SWET 426

Software Construction
Software Requirements Analysis and
Specification
Software Design
Software Project Laboratory

Elective Elective

Elective Elective

3

	Formal Methods and Models in Software	
SWET 427	Engineering	3 credits
SWET 430	Software Engineering Economics	3 credits
SWET 431	Object-Oriented Design Patterns	3 credits
SWET 432	User Interface Design and Development	3 credits
SWET 441	Human Computer Interaction	3 credits
SWET 445	Component-Based Software Development	3 credits
SWET 451	Client-Server Computing	3 credits
SWET 453	Web Page Authoring and Design	3 credits
SWET 454	Computer and Network Security	3 credits
SWET 461	Hardware-Software Interfacing	3 credits
SWET 490	Senior Project	3 credits
SWET 498	Special Topics	3 credits

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