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Unofficial Transcript as of: 03/29/13 12:30:28 PM

AT THE GRADUATE LEVEL * * * * * * * * * * * * * * * * * * *								
Div	vision	ENGINEERING & APPLIED S ENGINEERING & APPLIED S		PHD				
		DOCTOR OF PHILOSOPHY ELECTRICAL & SYSTEMS EN	<mark>IGINEE</mark> RI	NG				
* * * * *	* * *	* * DEGREES AWARDED *	* * *	* *	* * * * *			
08-13-10	MASTE	R OF SCIENCE IN ENGINEERI	NG					
* * * * * UNIVERSITY OF PENNSYLVANIA COURSE WORK * * * * *								
Fall 2007		ENGINEERING & APPLIED SC	EIENCE U	NDER	GRAD			
ENM	510	FNDATIONS OF ENG MATH I Term Statistics:	1.00	CU				
		Cumulative:	1.00		GPA 4.00			
Spring 200		ENGINEERING & APPLIED SO						
ENM	502	NUMERICAL MTHDS & MODLING Term Statistics:	1.00		A GPA 4.00			
		Cumulative:			GPA 4.00			
Fall 2008		ENGINEERING & APPLIED SO	IENCE U	NDER	GRAD			
MEAM	510	DSGN OF MECHATRONIC SYS						
		ROBOTICS & AUTOMATION ADVANCED DYNAMICS	1.00					
HIM	555	Term Statistics:			GPA 3.90			
		Cumulative:	5.00	CU	GPA 3.94			
Spring 200	09	ENGINEERING & APPLIED SC	IENCE U	NDER	GRAD			
MEAM	513	MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS	1.00		A			
MEAM	610	ADVANCED MECHATRONICS Term Statistics:			A- GPA 3.85			
		Cumulative:			GPA 3.91			
Fall 2009		ENGINEERING & APPLIED SC	IENCE U	NDER	GRAD			
ESE	519	REAL TIME EMBEDDED SYS						
		Term Statistics: Cumulative:	1.00 8.00		GPA 4.00 GPA 3.93			
Spring 201	10	ENGINEERING & APPLIED SO	TENCE II	MDED	CDAD			
CIS		MACHINE PERCEPTION	1.00					
ESE	899	INDEPENDENT STUDY	1.00					
		Term Statistics: Cumulative:			GPA 4.00 GPA 3.94			
Fall 2010		ENGINEERING & APPLIED SO	TENCE D	un.				
EAS	900	RESP CONDUCT RES ENG	(0.00)		S			
ESE	504	INTR TO OPTIMIZ THEORY	1.00	CU				
ESE ESE	530 617	ELMTS PROB THRY NON-LINEAR CONTROL THRY	1.00	CU				
LDL	017	Term Statistics:	3.00	CU				
		Cumulative:	13.00	CU				
Spring 201	11	ENGINEERING & APPLIED SC	IENCE P	HD				
ESE	501	ENGINEERING & APPLIED SO NETWKING THEORY & FUND	1.00	CU	C			
ESE	605 800	MDRN CONVEX OPTIMIZATION	1 1.00	CU	B− ∧+			
	033	PHD INDEPENDENT STUDY Term Statistics: Cumulative:	3.00	CU	GPA 2.90			
		Cumulative:	16.00	CU	GPA 3.63			
Fall 2011		ENGINEERING & APPLIED SO						
	520	MACHINE LEARNING	1.00	CU	B+			
ESE	680	SPECIAL TOPCS IN ESE: OP CONTROL THEORY	1.00	CU	Α			
ESE	999	THESIS/DISS RES	1.00	CU	S			
		Term Statistics: Cumulative:	3.00 19.00	CU	GPA 3.65			
					5.11 5.05			
		ENGINEERING & APPLIED SO THESIS/DISS RES	2.00		S			
		NETWORKED SYSTEMS	1.00					
		Term Statistics: Cumulative:			GPA 2.00			
					GEM 3.33			
Fall 2012		ENGINEERING & APPLIED SO			DТ			
ESE ESE	999	SPECIAL TOPCS IN ESE THESIS/DISS RES	1.00	CU	A+			
STAT	550	MATHEMATICAL STATISTICS	1.00	CU	B+			
		Term Statistics: Cumulative:	3.00	CU	GPA 3.53			
		Cumulacive:	23.00	CU	GEM 3.33			

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ENGINEERING & APPLIED SCIENCE PHD
Spring 2013
       576
              DIGITAL COMMUNIC SYS
THESIS/DISS RES
  ESE
                                      (1.00) CU
  ESE
         999
                                         (2.00) CU
                                                    NR
                  Term Statistics:
                                          0.00 CU
                                        25.00 CU GPA 3.55
                       Cumulative:
* * * * * * * NO ENTRIES BEYOND THIS POINT * * * * * * *
          AT THE GRADUATE LEVEL IN ENGINEERING
 * * * * * * * * * ACADEMIC PROGRAM
         School: ENGINEERING & APPLIED SCIENCE
       Division: ENGINEERING & APPLIED SCIENCE MASTERS
 Degree Program: MASTER OF SCIENCE IN ENGINEERING
         Major: MECHANICAL ENGR & APPLIED MECHANICS
                 Submatriculation Program
      School: ENGINEERING & APPLIED SCIENCE
Division: ENGINEERING & APPLIED SCIENCE UNDERGRAD
 Degree Program: BACHELOR OF SCIENCE IN ENGINEERING
         Major: MECHANICAL ENGR & APPLIED MECHANICS
   Second Major: ELECTRICAL ENGINEERING
* * * * * * * * * * DEGREES AWARDED * * * * * * * * * *
08-13-10 MASTER OF SCIENCE IN ENGINEERING
* * * * * UNIVERSITY OF PENNSYLVANIA COURSE WORK * * * * *
                ENGINEERING & APPLIED SCIENCE UNDERGRAD
  ENM 510
             FNDATIONS OF ENG MATH I 1.00 CU A+
Term Statistics: 1.00 CU GPA 4.00
                  Term Statistics:
                       Cumulative:
                                         1.00 CU GPA 4.00
Spring 2008
               ENGINEERING & APPLIED SCIENCE UNDERGRAD
               NUMERICAL MTHDS & MODLNG 1.00 CU A
                  Term Statistics:
                                         1.00 CU GPA 4.00
                       Cumulative:
                                         2.00 CU GPA 4.00
Fall 2008
                ENGINEERING & APPLIED SCIENCE UNDERGRAD
  MEAM 510
                DSGN OF MECHATRONIC SYS 1.00 CU A
  MEAM
         520
                ROBOTICS & AUTOMATION
                                          1.00
                                                CU
  MEAM
         535
               ADVANCED DYNAMICS
                                         1.00 CU
                                                    Α
                                               CU GPA 3.90
                  Term Statistics:
                                         3.00
                                         5.00 CU GPA 3.94
                       Cumulative:
Spring 2009
               ENGINEERING & APPLIED SCIENCE UNDERGRAD
  MEAM 513
MEAM 610
               MODERN FDBACK CNTRL THRY 1.00 CU
ADVANCED MECHATRONICS 1.00 CU
                                                     A-
                  Term Statistics:
                                          2.00
                                               CU GPA 3.85
                       Cumulative:
                                         7.00 CU GPA 3.91
Fall 2009
               ENGINEERING & APPLIED SCIENCE UNDERGRAD
        519
                                         1.00 CU
               REAL TIME EMBEDDED SYS
  ESE
                                                    A+
                                          1.00 CU GPA 4.00
                  Term Statistics:
                                          8.00 CU GPA 3.93
               ENGINEERING & APPLIED SCIENCE UNDERGRAD
Spring 2010
       580
                                        1.00 CU A
  CIS
               MACHINE PERCEPTION
  ESE
         899
               INDEPENDENT STUDY
                                          1.00 CU
                  Term Statistics:
                                         2.00 CU GPA 4.00
                       Cumulative:
                                        10.00 CU GPA 3.94
  * * * * * * NO ENTRIES BEYOND THIS POINT * * * * * * *
               AT THE UNDERGRADUATE LEVEL
* * * * * * * * * * ACADEMIC PROGRAM
                                      * * * * * * * * * * *
 Admitted From: UNIV NACIONAL DE INGENIER
         School: ENGINEERING & APPLIED SCIENCE
       Division: ENGINEERING & APPLIED SCIENCE UNDERGRAD
 Degree Program: BACHELOR OF SCIENCE IN ENGINEERING
         Major: MECHANICAL ENGR & APPLIED MECHANICS
   Second Major: ELECTRICAL ENGINEERING
                 Submatriculation Program
      School: ENGINEERING & APPLIED SCIENCE
Division: ENGINEERING & APPLIED SCIENCE MASTERS
 Degree Program: MASTER OF SCIENCE IN ENGINEERING
         Major: MECHANICAL ENGR & APPLIED MECHANICS
05-17-10 BACHELOR OF SCIENCE IN ENGINEERING
         MAGNA CUM LAUDE
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	UNIV	ERSITY OF PENNSYLVANIA COUR	RSE WOR	к *	* * * * *			
Fall 2005	;	ENGINEERING & APPLIED SC	ENCE U	NDER	GRAD			
ECON	001	INTRO ECON MICRO	1.00	CU	A			
MATH	241	CALCULUS IV	1.00	CU	A+			
MEAM	210	STATICS & STRENTH OF MAT	1.00	CU	A+			
DHAG	151	PRINCIPLES II	1 50	CU	3.1			
PHYS	151	Term Statistics:	1.50 4.50	CU	A+ GPA 4.00			
		Cumulative:	4.50	CU	GPA 4.00			
Spring 2006 ENGINEERING & APPLIED SCIENCE UNDERGRAD								
ECON	002	INTRO ECON MACRO	1.00	CU	B+			
LING MEAM	001 203	INTRO TO LINGUISTICS THERMODYNAMICS I	1.00	CU	B+ B+			
MEAM	211	ENG MECHANICS: DYNAMICS	1.00	CU	Б∓ А <b>−</b>			
MEAM	247	MEAM LAB I	0.50	CU	A-			
		Term Statistics:	4.50	CU	GPA 3.43			
		Cumulative:	9.00	CU	GPA 3.72			
=-11 000								
Fall 2006 CSE	120	PROG LANG & TECH I	1.00	CU	GRAD P			
ECON	101	INTERMED MICROECONOMICS	1.00	CU	A-			
MEAM	247	MEAM LAB I	0.50	CU	A-			
MEAM	302	FLUID MECHANICS	1.00	CU	A			
MEAM	347	MEAM LAB II	0.50	CU	A			
PHYS	230	PRINCIPLES III:	1.00	CU	B+			
		Term Statistics: Cumulative:	5.00 14.00	CU	GPA 3.71 GPA 3.72			
		Cumulative:	14.00	CU	GPA 3.72			
Spring 20	07	ENGINEERING & APPLIED SC	ENCE U	NDER	GRAD			
EAS	303	ETH/SOC/PROF RSP FOR ENG	1.00	CU	P			
ECON	102	INTERMED MACROECONOMICS	1.00	CU	В			
ESE	116	INTRO TO C PROGRAMMING	0.50	CU	A-			
MEAM	310	DESIGN OF THRML/FLD SYS	1.00	CU	A-			
MEAM MEAM	333 347	HEAT/MASS TRANSFER MEAM LAB II	1.00	CU	B+ B+			
MEAM	347	Term Statistics:	5.00	CU	GPA 3.38			
		Cumulative:	19.00	CU	GPA 3.64			
Summer 20		ENGINEERING & APPLIED SC						
FREN	110	ELEMENTARY FRENCH	1.00	CU	A			
FREN	120	ELEMENTARY FRENCH Term Statistics:	1.00	CU	A- GPA 3.85			
		Cumulative:	21.00	CU	GPA 3.65			
		cumuracive.	21.00	-	GIN 3.00			
Fall 2007	,	ENGINEERING & APPLIED SC	ENCE U	NDER	GRAD			
ENM	510	FNDATIONS OF ENG MATH I	1.00	CU	A+			
ESE	205	ELEC CIR & SYS I LAB	0.50	CU	A			
ESE ESE	215	ELEC CIRCUITS & SYS I	1.00	CU	A			
MEAM	304 245	OPTIMIZATION OF SYSTEMS INTRO TO FLIGHT	1.00	CU	A- A			
MEAM	321	VIBRATION MECH SYSTEMS	1.00	CU	A+			
		Term Statistics:	5.50	CU	GPA 3.95			
		Cumulative:	26.50	CU	GPA 3.72			
Spring 20 ENM	502	ENGINEERING & APPLIED SCI NUMERICAL MTHDS & MODLING		NDER CU	GRAD A			
ESE		ELEC CIR & SYS II LAB	0.50	CU	B+			
ESE	210	INTRO TO DYNAMIC SYSTEMS						
ESE	216	INTRO TO DYNAMIC SYSTEMS ELEC CIRCUITS & SYS II	1.00	CU	A			
ESE	218		1.00		A+			
ESE	325	SIGNALS & SYSTEMS	1.00		A			
		Term Statistics:	5.50	CU				
		Cumulative:	32.00	CU	GPA 3.76			
Fall 2008	3	ENGINEERING & APPLIED SC	ENCE U	NDER	GRAD			
ESE	319	FNDMTL SOLID STATE CRCT	1.50	CU	A-			
ESE MEAM	319 510	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS	1.50 1.00	CU	A- A			
ESE MEAM MEAM	319 510 520	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION	1.50 1.00 1.00	CU CU	A- A A-			
ESE MEAM	319 510 520	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS	1.50 1.00 1.00 1.00	CU CU CU	A- A A- A			
ESE MEAM MEAM	319 510 520	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics:	1.50 1.00 1.00 1.00 4.50	CU CU CU CU	A- A A- A GPA 3.83			
ESE MEAM MEAM	319 510 520	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics:	1.50 1.00 1.00 1.00	CU CU CU CU	A- A A- A GPA 3.83			
ESE MEAM MEAM	319 510 520 535	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics:	1.50 1.00 1.00 1.00 4.50 36.50	CU CU CU CU CU	A- A- A- GPA 3.83 GPA 3.77			
ESE MEAM MEAM MEAM	319 510 520 535	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative: ENGINEERING & APPLIED SC	1.50 1.00 1.00 1.00 4.50 36.50	CU CU CU CU CU	A- A- A- GPA 3.83 GPA 3.77			
ESE MEAM MEAM MEAM Spring 20 ESE	319 510 520 535	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB	1.50 1.00 1.00 1.00 4.50 36.50	CU CU CU CU CU CU	A- A A- A GPA 3.83 GPA 3.77			
ESE MEAM MEAM MEAM Spring 20 ESE MEAM	319 510 520 535 <b>009</b> 350 513	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY	1.50 1.00 1.00 1.00 4.50 36.50 EENCE U 1.50	CU CU CU CU CU CU CU	A-AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			
ESE MEAM MEAM MEAM Spring 20 ESE	319 510 520 535 <b>909</b> 350 513 610	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY	1.50 1.00 1.00 1.00 4.50 36.50	CU CU CU CU CU CU CU	A- A- A- A- GPA 3.83 GPA 3.77			
ESE MEAM MEAM MEAM Spring 20 ESE MEAM MEAM	319 510 520 535 <b>909</b> 350 513 610	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS	1.50 1.00 1.00 1.00 4.50 36.50 EENCE U 1.50	CU CU CU CU CU CU CU CU	A- A A- A GPA 3.83 GPA 3.77 GRAD A- A- B-			
ESE MEAM MEAM MEAM Spring 20 ESE MEAM MEAM	319 510 520 535 <b>909</b> 350 513 610	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics:	1.50 1.00 1.00 1.00 4.50 36.50 EENCE U 1.50 1.00 1.00	CU	A- A A- A GPA 3.83 GPA 3.77 GRAD A- A B- GPA 3.54			
ESE MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM	319 510 520 535 <b>209</b> 350 513 610 620	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:	1.50 1.00 1.00 1.00 4.50 36.50 EENCE U 1.50 1.00 1.00 4.50 41.00	CU C	A- A- A- GPA 3.83 GPA 3.77 GRAD A- A- B- GPA 3.54 GPA 3.74			
ESE MEAM MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM	319 510 520 535 350 350 513 610 620	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative: ENGINEERING & APPLIED SCI	1.50 1.00 1.00 4.50 36.50 1.00 1.00 1.00 4.50 41.00	CU C	A- A A- A- GPA 3.83 GPA 3.77 GRAD A- A- B- GPA 3.54 GPA 3.74			
ESE MEAM MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM MEAM	319 510 520 535 009 350 513 610 620	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI FINANCIAL DERIVATIVES	1.50 1.00 1.00 4.50 36.50 1.50 1.00 1.00 4.50 41.00	CU C	A- A- A- GPA 3.83 GPA 3.77 GRAD A- A- B- GPA 3.54 GPA 3.74			
ESE MEAM MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM	319 510 520 535 350 350 513 610 620	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI FINANCIAL DERIVATIVES WRITING SEM GLOBAL ENGL:	1.50 1.00 1.00 4.50 36.50 HENCE U 1.50 1.00 1.00 4.50 41.00	CU C	A- A A- A GPA 3.83 GPA 3.77 GRAD A- A A- B- GPA 3.54 GPA 3.74			
ESE MEAM MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM MEAM	319 510 520 535 009 350 513 610 620	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI FINANCIAL DERIVATIVES WRITING SEM GLOBAL ENGL:	1.50 1.00 1.00 4.50 36.50 1.50 1.00 1.00 4.50 41.00	CU C	A- A A- A- GPA 3.83 GPA 3.77 GRAD A- A- B- GPA 3.54 GPA 3.74 GRAD B			
ESE MEAM MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM MEAM	319 510 520 535 009 350 513 610 620	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI FINANCIAL DERIVATIVES WRITING SEM GLOBAL ENGL: TRANSNATIONAL FAMILIES TERM Statistics:	1.50 1.00 1.00 4.50 36.50 EENCE U 1.50 1.00 1.00 4.50 41.00	CU C	A- A A- A- GPA 3.83 GPA 3.77 GRAD A- A- B- GPA 3.54 GPA 3.74 GRAD B			
ESE MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM MEAM	319 510 520 535 009 350 513 610 620 009 206 011	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI FINANCIAL DERIVATIVES WRITING SEM GLOBAL ENGL: TRANSNATIONAL FAMILIES TERM Statistics: Cumulative:	1.50 1.00 1.00 4.50 36.50 1.50 1.00 1.00 4.50 41.00 4.50 41.00	CU C	A-A A-A GPA 3.83 GPA 3.77  GRAD A-A B-GPA 3.54 GPA 3.74  GRAD B A-GPA 3.75			
ESE MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM MEAM	319 510 520 535 009 350 513 610 620 009 206 011	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB  MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI FINANCIAL DERIVATIVES WRITING SEM GLOBAL ENGL: TRANSNATIONAL FAMILIES Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI TRANSNATIONAL FAMILIES Term Statistics: Cumulative:	1.50 1.00 1.00 4.50 36.50 HENCE U 1.50 1.00 1.00 4.50 41.00 1.00 1.00 4.50 41.00	CU C	A-A-A-GPA 3.83 GPA 3.77  GRAD A-A-B-GPA 3.54 GPA 3.74  GRAD B-GPA 3.74  GRAD B-GPA 3.75  GRAD GRAD GRAD GRAD GRAD GRAD GRAD GRA			
ESE MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM FINCE WRIT	319 510 520 535 350 350 513 610 620 206 011	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI FINANCIAL DERIVATIVES WRITING SEM GLOBAL ENGL: TRANSNATIONAL FAMILIES Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI STANSNATIONAL FAMILIES TERM STATISTICS: Cumulative:  ENGINEERING & APPLIED SCI SR DESIGN PROJ I-EE/CTE	1.50 1.00 1.00 4.50 36.50 (ENCE U 1.50 1.00 4.50 41.00 4.50 41.00 1.00 2.00 43.00	CU C	A-A A A-A GPA 3.83 GPA 3.77  GRAD A-A B-GPA 3.54 GPA 3.74  GRAD B A-GPA 3.35 GPA 3.73  GRAD B-GPA 3.35			
ESE MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM MEAM	319 510 520 535 350 513 610 620 206 011	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI FINANCIAL DERIVATIVES WRITING SEM GLOBAL ENGL: TRANSNATIONAL FAMILIES Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI STANSNATIONAL FAMILIES TERM STATISTICS: Cumulative:  ENGINEERING & APPLIED SCI SR DESIGN PROJ I-EE/CTE	1.50 1.00 1.00 4.50 36.50 HENCE U 1.50 1.00 1.00 4.50 41.00 1.00 1.00 4.50 41.00	CU C	A-A A A-A GPA 3.83 GPA 3.77  GRAD A-A B-GPA 3.54 GPA 3.74  GRAD B A-GPA 3.35 GPA 3.73  GRAD B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-B-			
ESE MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM MEAM	319 510 520 535 350 513 610 620 206 011	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI FINANCIAL DERIVATIVES WRITING SEM GLOBAL ENGL: TRANSNATIONAL FAMILIES Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI STRANSNATIONAL FAMILIES TERM STATISTICS: CUMULATIVE:  ENGINEERING & APPLIED SCI SR DESIGN PROJ I-EE/CTE LINEAR SYSTEMS THEORY	1.50 1.00 1.00 1.00 4.50 36.50 1.50 1.00 1.00 4.50 41.00 1.00 2.00 43.00	CU C	A-A A-A GPA 3.83 GPA 3.77  GRAD A-A B-GPA 3.54 GPA 3.74  GRAD B A-GPA 3.75 GPA 3.75 GRAD B-B-B-A+			
ESE MEAM MEAM MEAM Spring 20 ESE MEAM MEAM MEAM MEAM MEAM MEAM MEAM	319 510 520 535 350 513 610 620 206 011	FNDMTL SOLID STATE CRCT DSGN OF MECHATRONIC SYS ROBOTICS & AUTOMATION ADVANCED DYNAMICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI EMBED SYS/MICROCONT LAB  MODERN FDBACK CNTRL THRY ADVANCED MECHATRONICS ROBOTICS Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI FINANCIAL DERIVATIVES WRITING SEM GLOBAL ENGL: TRANSNATIONAL FAMILIES Term Statistics: Cumulative:  ENGINEERING & APPLIED SCI STENSANTIONAL FAMILIES TERM STATISTICS: CUMULATIVE:  ENGINEERING & APPLIED SCI SR DESIGN PROJ I-EE/CTE LINEAR SYSTEMS THEORY REAL TIME EMBEDDED SYS TERM Statistics:	1.50 1.00 1.00 4.50 36.50 IENCE U 1.50 1.00 4.50 41.00 4.50 41.00 1.00 2.00 43.00 43.00	CU C	A-A A-A GPA 3.83 GPA 3.77  GRAD A-A B-GPA 3.54 GPA 3.74  GRAD B A-GPA 3.75  GRAD B A-GPA 3.75  GRAD B A-GPA 3.73  GRAD B A-GPA 3.73			

ENGINEERING & APPLIED SCIENCE UNDERGRAD

Spring 2010

CIS	160	MATH FOUND COMP SCI		1.00	CU	В	
CIS	580	MACHINE PERCEPTION		1.00	CU	A	
ESE	442	SENIOR DESIGN PROJE	CT II	1.00	CU	В	
ESE	899	INDEPENDENT STUDY		1.00	CU	A+	
		Term Statistics:		4.00	CU	GPA	3.50
		Cumulative:		50.00	CU	GPA	3.68
		Equivalent Credit:		13.00	CU		
		Total Credit:		63.00	CU		
* * * *	* * * *	* * PENN EQUIVALENT C	REDIT	* * *	* *	* * *	* *
External	Transi	fer Credit:					
		AL DE INGENIER	CHE	M 1		1.0	0 CU
			CHE				0 CU
			CIS	110		1.0	0 CU
			ESE	301		1.0	0 CU
			MAT	H FREE	Ξ	1.0	0 CU
			MAT	H FREI	3	1.0	0 CU
			MAT	н 103		1.0	0 CU
			MAT	н 114		1.0	0 CU
			MAT	H 240		1.0	0 CU
			MAT	H 412		1.0	0 CU
			MEA	M FREE	3	1.0	0 CU
			MEA	M 215		1.0	0 CU
			PHY	S 50		0.5	0 CU
			PHY	S 93		1.0	0 CU
Total Per	nn Equi	ivalent Credit Awarde	d:			13.0	0 CU
* * * *	* * *	NO ENTRIES BEYOND TH	IS POI	NT *	* *	* * *	* *

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