

# my courses

Nasser M. Abbasi

January 25, 2018      compiled on — Thursday January 25, 2018 at 09:16 PM

## Contents

<b>1</b>	<b>All credit courses listed in chronological order (127)</b>	<b>2</b>
<b>2</b>	<b>Credit courses sorted by degree</b>	<b>12</b>
2.1	Credit courses taken as a non-degree student (39) . . . . .	12
2.2	MS Engineering Mechanics (8) . . . . .	16
2.3	MS Applied Mathematics (10) . . . . .	17
2.4	MS Mechanical Engineering (12) . . . . .	18
2.5	MS Electrical Engineering (15) . . . . .	18
2.6	MS Computer Science (9) . . . . .	19
2.7	MS Civil Engineering (9) . . . . .	20
2.8	B.Eng Civil/Building Engineering (20) . . . . .	21
<b>3</b>	<b>Official courses sorted by University</b>	<b>22</b>
3.1	University of Wisconsin-Milwaukee (1) . . . . .	22
3.2	University of Wisconsin-Madison (19) . . . . .	22
3.3	University of California, Davis (3) . . . . .	25
3.4	Cal Poly Pomona, California (1) . . . . .	26
3.5	California state University, Fullerton (14) . . . . .	26
3.6	University Of California, Irvine (21) . . . . .	27
3.7	University Of California, Berkeley (3) . . . . .	28
3.8	California State University, San Jose (1) . . . . .	29
3.9	Northeastern University, Boston, MA (13) . . . . .	29
3.10	University of Massachusetts, Amherst, MA (2) . . . . .	30
3.11	University of Massachusetts, Lowell, MA (1) . . . . .	30
3.12	Boston University, Boston, MA (1) . . . . .	30
3.13	University Of Washington, Seattle, WA (1) . . . . .	30
3.14	University Of California, Santa Barbara, CA (1) . . . . .	30
3.15	Oakland University, Michigan (9) . . . . .	31
3.16	Wayne State University, Detroit, Michigan (2) . . . . .	31
3.17	University of Southern California (USC), Los Angeles, CA (9) . . . . .	31
3.18	Liverpool University, England (20) . . . . .	32
3.19	Stockton Billingham technical College, England (5) . . . . .	34
<b>4</b>	<b>Official courses sorted by Department</b>	<b>34</b>
4.1	Engineering Mechanics (6) . . . . .	34
4.2	Electrical Engineering (28) . . . . .	35
4.3	Mechanical Engineering (18) . . . . .	37
4.4	Mathematics (25) . . . . .	39
4.5	Computer Science (11) . . . . .	41
4.6	Physics (7) . . . . .	42
4.7	Engineering Physics (1) . . . . .	43
4.8	Civil Engineering (31) . . . . .	43

5 Partial list of non-credit courses, audit courses, misc. lectures and notes 45

6 TA Courses 45

1 All credit courses listed in chronological order (127)

No.	degree	university	course name	department	date	text book	instructor
127	Non-degree	University Of Wisconsin, Milwaukee	Math 322 Introduction to Partial differential equations  meeting: TuTh 2:00PM - 3:15PM EMS E160  discussion: N/A  finals: May 2018	Mathematics	Spring 2018	Elementary Differential Equations and Boundary Value Problems, 10th Edition. William E. Boyce, 200e Richard C. DiPrima	Hans Volkmer
126	Non-degree	University Of Wisconsin, Madison	ME 240 Dynamics  meeting: TuTh 1:20PM - 2:10PM ENGR HALL 1800  discussion: WeFr 9:55AM - 10:45AM, Wang,Shu 2108 MECH  finals: 12/18/2017 10:05AM 12:05PM	Mechanical Engineering	Fall 2017	Dynamics ISBN 9780077891145 by Gray, Costanzo, Plesha MCGRAW HILL, second edition	Sonny Aaron Nimityongskul
125	Non-degree	University Of Wisconsin, Madison	ME 440 Intermediate Vibrations  meeting: TuTh 11:00AM - 12:15PM MECH ENGR 2108  discussion: N/A  finals: 12/16/2017 2:45PM 4:45PM	Mechanical Engineering	Fall 2017	S. S. Rao Mechanical vibration 4th edition	Andrew Mikkelson
124	Non-degree	University Of Wisconsin, Madison	EP 548 Engineering Analysis II  meeting: TuTh 11:00AM - 12:15PM VAN VLECK B341  discussion: N/A  finals: 05/11/2017 10:05AM 12:05PM	Engineering Physics	Fall 2017	Advanced Mathematical Methods for Scientists and Engineers I, Bender and Orszag. Applied Partial Differential Equations, Haberman	Leslie Smith

123	Non-degree	University Of Wisconsin, Madison	Math 320 Linear algebra and differential equations  meeting: TuTh 9:30AM - 10:45AM VAN VLECK B239  discussion: Mo 8:50AM - 9:40AM VAN VLECK B115  finals: 05/07/2017 7:25PM 9:25PM	Mathematics	Fall 2016	Differential Equations and Linear Algebra by Edwards and Penney	Leslie Smith
122	Non-degree	University Of Wisconsin, Madison	Math 322 Applied Mathematical Analysis  meeting: MWF, 12:05-12:55 Van Hise 115  discussion: N/A  finals: Sat dec 17, 5:05 PM to 7:05 PM.	Mathematics	Fall 2016	Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5th ed. Richard Haberman	Leslie Smith
121	Non-degree	University Of Wisconsin, Madison	Math 319: Techniques in Ordinary Differential Equations  meeting: MoWeFr 2:25PM - 3:15PM, VAN VLECK B239  finals: Dec 22, 2016 12:25 PM-2:25 PM	Mathematics	Fall 2016	Elementary Differential Equations, 9th ed by William E. Boyce, Richard C. DiPrima	Minh-Binh Tran
120	Non-degree	University Of Wisconsin, Madison	ECE 719, Optimal systems  meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418  finals: May 5 2016, 9:30 AM	Electrical Engineering	Spring 2016	Class notes	B. R. Barmish
119	Non-degree	University Of Wisconsin, Madison	EMA 471 Intermediate Problem Solving for Engineers  meeting: TuTh 8:00AM - 9:15AM ENGR HALL 2261  finals: 05/12/2016 7:45AM 9:45AM	Engineering Mechanics	Spring 2016	Class notes	Robert J. Witt
118	Non-degree	University Of Wisconsin, Madison	ECE 332, feedback control  meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418  finals: 12/10/2015, 9:30 AM	Electrical Engineering	Fall 2015	Class notes	B. R. Barmish

117	Non-degree	University Of Wisconsin, Madison	Physics 311 (Mechanics)  meeting: MWF 11:00AM - 11:50AM, VAN HISE 494  discussion: Th 1:20PM - 2:10PM CHAMBERLIN 2108  finals: 12/17/2015 5:05PM	Physics	Fall 2015	S.T. Thornton, J.B. Marion, Classical Dynamics of Particles and Systems, 5th Edition, Brooks/Cole, 2004, ISBN 0534408966	Stefan Westerhoff
116	Non-degree	University Of Wisconsin, Madison	ECE/ME 739, Introduction to Robotics	Electrical Engineering	Spring 2015	Robot Modeling and Control, by Spong, Hutchinson, and Vidyasagar ISBN ISBN 0-471-64990-2	Michael Zinn
115	MS Engineering Mechanics	University Of Wisconsin, Madison	Math 703 methods of applied mathematics I  meeting: Mu,Thu 11:00AM - 12:15PM VAN VLECK B139	Mathematics	Fall 2014	Introduction to Applied Mathematics, ISBN 0961408804 by Gilbert Strang	Gheorghe Craciun
114	MS Engineering Mechanics	University Of Wisconsin, Madison	ECE 717 Linear systems  meeting: TuTh 2:30PM - 3:45PM ENG HALL 3444  finals: 12/18/2014 10:05AM	Electrical Engineering	Fall 2014	Linear System Theory (second edition) ISBN 0134412052 by W.J. Rugh	B. R. Barmish
113	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 550 astrody-namics  meeting: TuTh 2:30PM - 3:45PM ENGR HALL 2265  finals: 05/15/2014 12:25PM 2:25PM	Engineering Mechanics	Spring 2014	class notes	Suzannah Sandrik
112	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 523 flight dynamics and control  meeting: Tue, Thu, 11:00AM - 12:00PM  finals: Tu,Th 9:30AM - 10:45AM ENGR HALL 1209	Engineering Mechanics	Spring 2014	Dynamics of flight, stability and control, 3rd ed Wiley, Etkin B. and Reid L.D. 1996	Riccardo Bonazza
111	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 542 Advanced Dynamics  meeting: M W F 9:55AM - 10:45AM ENGR HALL 2255  finals: 12/19/2013 12:25PM 2:25PM	Engineering Mechanics	Fall 2013	Engineering Dynamics by Ginsberg Class notes	Daniel C. Kammer

110	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 547 Engineering analysis 1  meeting: M W F 11:00AM - 11:50AM ENGR HALL 2305  finals: 12/20/2013 10:05AM 12:05PM	Engineering Mechanics	Fall 2013	Advanced Engineering Mathematics, Peter V. ONeil 6th ed	Douglass L. Henderson
109	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 545 Engineering Vibration	Engineering Mechanics	Spring 2013	Mechanical and Structural Vibration by Ginsberg	Matt Allen
108	MS Engineering Mechanics	University Of Wisconsin, Madison	CEE 744 Structural Dynamics and Earthquake Engineering	Civil Engineering	Spring 2013	Dynamics of Structures, Anil K. Chopra, Prentice-Hall	Michael Oliva
107	Non-degree	University of California, Davis	EME 121 Engineering applications of dynamics	Mechanical Engineering	Spring 2011	Engineering applications of dynamics by Karnopp and Margolis	Donald Margolis
106	Non-degree	University of California, Davis	Math 228B Numerical Solution of Differential Equations	Mathematics	Winter 2011	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque	Robert Guy
105	Non-degree	University of California, Davis	Math 228A Numerical Solution of Differential Equations	Mathematics	Fall 2010	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque	Robert Guy
104	Non-degree	Cal Poly Pomona, California	ECE 405 Communication systems	Electrical Engineering	Summer session I 2010	Modern digital and analog communication systems by Lathi	James Kang
103	Non-degree	California state University Fullerton	EGEE 420 Digital filters	Electrical Engineering	Spring 2010	DIGITAL SIGNAL PROCESSING by OPPENHEIM	Mostafa Shiva
102	Non-degree	California state University Fullerton	EGEE 409 Linear systems and signals	Electrical Engineering	Spring 2010	Signals and linear systems by Gabel and Roberts, 3rd ed	Mohinder S. Grewal
101	Non-degree	California state University Fullerton	EGME 511 Advanced Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition	Sang June Oh
100	Non-degree	California state University Fullerton	EGME 431 Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition	Sang June Oh
99	MS Applied Mathematics	California state University Fullerton	EGEE 518 Digital Signal Processing I	Electrical Engineering	Fall 2008	DIGITAL SIGNAL PROCESSING by OPPENHEIM	Mostafa Shiva
98	MS Applied Mathematics	California state University Fullerton	EGEE 443 Electronic Communication Systems	Electrical Engineering	Fall 2008	INTRODUCTION TO ANALOG and DIGITAL COMMUNICATIONS By HAYKIN	Karim Hamidian
97	MS Applied Mathematics	California state University Fullerton	Math 597 B Finals Research	Applied Mathematics	Summer 2008		Angel R. Pineda
96	MS Applied Mathematics	California state University Fullerton	Math 597 A Finals Research	Applied Mathematics	Summer 2008		W. B. Gearhart

95	MS Applied Mathematics	California state University Fullerton	Math 504 Simulation Modeling and Analysis	Applied Mathematics	Spring 2008	Lecture notes by Dr Gearhart. Reference book: Introduction to probability models by Sheldon Ross	W. B. Gearhart
94	MS Applied Mathematics	California state University Fullerton	Math 502 Probability and Statistics	Applied Mathematics	Fall 2007	Mathematical statistics and data analysis 3rd edition. By John Rice	Mori Jamshidian
93	MS Applied Mathematics	California state University Fullerton	Math 503 Mathematical Modeling	Applied Mathematics	Summer 2007	Applied Mathematics 3rd edition by David Logan	W. B. Gearhart
92	MS Applied Mathematics	California state University Fullerton	Math 499 independent studies	Applied Mathematics	Spring 2007	Applied Mathematics 3rd edition by David Logan	Angel R. Pineda
91	MS Applied Mathematics	California state University Fullerton	Math 501 Numerical Analysis and computation	Applied Mathematics	Spring 2007	Numerical Analysis 3rd edition. by David R. Kincaid, E. Ward Cheney	C. H. Lee
90	MS Applied Mathematics	California state University Fullerton	Math 307 Linear Algebra	Applied Mathematics	Spring 2007	Linear Algebra and its Applications 4th edition. By Gilbert Strang	Angel R. Pineda
89	MS Mechanical Engineering	University Of California, Irvine	CE 247 Structural Dynamics	Civil Engineering	Fall 2006	Structural Dynamics. 5th edition. Mario PAZ	Maria Q. Feng
88	MS Mechanical Engineering	University Of California, Irvine	PHY 100 Computational Methods in Physics	Physics	Fall 2006	Instructor own Mathematica Handbook	Peter Taborek
87	MS Mechanical Engineering	University Of California, Irvine	MAE 299 research 1 unit	Mechanical Engineering	Spring 2006		A. Sideris
86	MS Mechanical Engineering	University Of California, Irvine	MAE 207 Computational methods	Mechanical Engineering	Spring 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N. Atluri	S. N. Atluri
85	MS Mechanical Engineering	University Of California, Irvine	MAE 244 Theoretical Kinematics	Mechanical Engineering	Spring 2006	Introduction to theoretical kinematics, by J.M.McCarthy	J.M. McCarthy
84	MS Mechanical Engineering	University Of California, Irvine	MAE 295 Solid mechanics	Mechanical Engineering	Winter 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N.Atluri	S.N. Atluri
83	MS Mechanical Engineering	University Of California, Irvine	MAE 200B Engineering Analysis II	Mechanical Engineering	Winter 2006	Instructor notes	Feng Liu
82	MS Mechanical Engineering	University Of California, Irvine	MAE 270A Linear Systems 1	Mechanical Engineering	Fall 2005	Instructor notes	A. Sideris
81	MS Mechanical Engineering	University Of California, Irvine	MAE 200A Engineering Analysis 1	Mechanical Engineering	Fall 2005	Instructor notes	K.D. Mease
80	MS Mechanical Engineering	University Of California, Irvine	MAE 171 Digital Control	Mechanical Engineering	Spring 2005	Digital Control System Analysis and Design. 3rd edition. By Charles Phillips and H. Troy Nagle	A. Sideris

79	MS Mechanical Engineering	University Of California, Irvine	MAE 170 Introduction to control systems	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition	James Bobrow
78	MS Mechanical Engineering	University Of California, Irvine	MAE 106 Mechanical Systems Lab	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition	David J. Reinkensmeyer
77	Non-degree	University Of California, Irvine	EECS 207A Advanced Image processing	Electrical Engineering	Fall 2004	Algorithms for Image Processing and computer vision, J.R.Parker	Joerg Meyer
76	Non-degree	University Of California, Irvine	EECS 152A Digital Signal processing	Electrical Engineering	Fall 2004	DSP by Proakis and Manolakis, 3rd edition	Glenn Healey
75	Non-degree	University Of California, Irvine	EECS 203A Digital Image processing	Electrical Engineering	Fall 2004	Digital image processing, 2nd edition by Gonzales and Woods	Glenn Healey
74	Non-degree	University Of California, Irvine	MAE 91 Introduction To Thermodynamics	Mechanical Engineering	Summer 2004	FUNDAMENTALS THERMODYNAMICS by SONNTAG	Hong Zhou
73	Non-degree	University Of California, Berkeley	MATH 121B Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition	Richard E. Borcherds
72	Non-degree	University Of California, Berkeley	MATH 121A Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition	Fraydoun Reza-khanlou
71	Non-degree	University Of California, Irvine	Physics 7LD Classical Physics 7D Lab	Physics	Summer 2003	Lab notes	Roger D. McWilliams
70	Non-degree	University Of California, Irvine	Physics 7D Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner	Roger D. McWilliams
69	Non-degree	University Of California, Irvine	Physics 7E Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner	Roger D. McWilliams
68	Non-degree	University Of California, Irvine	MAE 185 Applied Numerical Analysis	Mechanical Engineering	Spring 2003	Applied Numerical Analysis, C.F. Gerald and P.O. Wheatley, 5th Edition	Maqsood Chaudhry
67	Non-degree	University Of California, Irvine	MAE 146 Astronautics	Mechanical Engineering	Spring 2003	Fundamentals of Astrodynamics, R.R. Bate, D.D. Mueller, J.E. White, Dover	Melissa Orme
66	Non-degree	University Of California, Berkeley	Math 127 Mathematical and Computational Methods in Molecular Biology	Mathematics	Fall 2002	Biological sequence analysis: probabilistic models of proteins and nucleic acids By Richard Durbin	Lior Pachter
65	Non-degree	California State University, San Jose	Physics 240 Computational Physics	Physics	Fall 2002	BNumerical Methods for Physics, 2nd Edition. A.L.Garcia	Alejandro Garcia
64	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3311 Software engineering 1	Electrical Engineering	Fall 1993		David R. Kaeli
63	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3341 Probability and stochastic processes	Electrical Engineering	Fall 1993		Vinay K. Ingle

62	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3325 Numerical software development methods	Electrical Engineering	March 1993	Numerical software, by Dr Nash. 1989	Wilfred J. Remillard
61	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3386 Characteristics and models of solid state devices I-B	Electrical Engineering	January 1993	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985	Nagappan K. Annamalai
60	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3342 Electromagnetic theory I-A	Electrical Engineering	Fall 1992	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington	Charles J. Drane
59	MS Electrical Engineering	University of Massachusetts, Amherst, MA	ECE 580 Feedback control systems	Electrical Engineering	Summer 1992	Modern Control Engineering, by K. Ogata, 2nd edition, Prentice Hall, 1990	Wei-Bo Gong
58	Non-degree	University of Massachusetts, Lowell, MA	MATH 92.306 Real Analysis II	Mathematics	Summer 1992	Introduction to real analysis, By Barbence. And advanced calculus by Buck	James Graham-Eagle
57	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3371 Linear Optimal Control Theory I	Electrical Engineering	March 1992	Linear Optimal Control Systems. by Kwakwenaak and Sivan	Gilead Tadmor
56	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3321 Digital Signal Processing	Electrical Engineering	March 1992	Digital Signal Processing by Proakis, Macmillan and Manolakis	Ram Raghavan
55	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3221 Linear Systems Analysis	Electrical Engineering	January 1992	Computer Aided Analysis and Design of Linear control systems. B. Shafi. Prentice Hall	Bahram Shafai
54	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3211 Mathematical Methods in EE I	Electrical Engineering	Fall 1991	Engineering Analysis , Vector Space approach by Robert J. Schilling , Hua Lee. Finite Dimensional Vector Space, by R.Halmos	Gilead Tadmor
53	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3100 Introduction to circuits and Systems I	Electrical Engineering	Fall 1991	Linear Circuits Analysis by S. Madhu	William J. Bintz
52	MS Electrical Engineering	University of Massachusetts, Amherst, MA	MATH 697P Mathematical Methods For Science And Engineering I	Mathematics	Summer 1991	Mathematical Physics, E.Butkov, Addison Wesley	Donald F St. Mary
51	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3102 Introduction to Electromagnetic Field Theory I	Electrical Engineering	March 1991	Field And Wave Electromagnetics, by David K. Cheng	Charles J. Drane
50	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3101 Micro-Electronics I	Electrical Engineering	January 1991	Microelectronics by Jacob Millman, Arvin Grabelg	Bill Bintz
49	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3108 Signals and Systems	Electrical Engineering	January 1991	Signals And Systems By Alan V. Oppenheim, Alan S. Willsky	Lisa Shatz
48	Non-degree	Boston University, Boston, MA	CSE 635 Local Area Networks: Design and Implementation	Computer Science	Fall 1990	Local Networks, Second Edition, by Stalling,William	Mikhail Orlov



47	Non-degree	University Of Washington, Seattle, WA	CSE 524 Parallel Algorithms	Computer Science	March 1990		Richard Anderson
46	Non-degree	University Of California, Santa Barbara	CSE 274 Advanced Topics in Data Base	Computer Science	March 1989	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley	Divyakant Agrawal
45	MS Computer Science	Oakland University, Michigan	CSE 565 Compiler Construction	Computer Science	Fall 1988	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley	Ronald J. Srodawa
44	MS Computer Science	Oakland University, Michigan	CSE 535 Programming languages design	Computer Science	Fall 1988	Programming Languages: Design and Implementation, Terrence W. Pratt, Marvin V. Zelkowitz	Ronald J. Srodawa
43	MS Computer Science	Oakland University, Michigan	CSE 550 Operating Systems	Computer Science	March 1988	Milenkovic, Operating Systems, McGraw Hillz	David E. Boddy
42	MS Computer Science	Oakland University, Michigan	CSE 542 Algorithms	Computer Science	March 1988	Data structures and Algorithms. by Aho,Hopcraft and Ullman	James H. McKay
41	MS Computer Science	Oakland University, Michigan	CSE 502 Hardware Logic design	Computer Science	January 1988	Motorola MC6800 Microprocessor family assembly language, Interface design and system design	Subramaniam Ganesan
40	MS Computer Science	Oakland University, Michigan	CSE 504 Discrete structures and Foundation of computer science	Computer Science	January 1988	A.Doerr, K.Levasseur. by Applied Discrete Structures for computer science, SRA 1985	Thomas G. Windeknecht
39	MS Computer Science	Oakland University, Michigan	CSE 538 Programming methodology	Computer Science	Fall 1987	Systematic Software development using VDM. by C.B.Jones	Janusz Laski
38	MS Computer Science	Oakland University, Michigan	APM 563 Discrete methods	Mathematics	Fall 1987	Albert Tucker, Applied Combinatorals	
37	MS Computer Science	Oakland University, Michigan	CSE 516 Artificial Intelligence	Computer Science	Summer 1987	AI by Patrick Henry Winston	
36	Non-degree	Wayne State University, Detroit, Michigan	CSE 531 Computer Organization	Electrical Engineering	March 1987	Computer Design and Architecture by Sajjan G. Shirva	Aridam Guptaray
35	Non-degree	Wayne State University, Detroit, Michigan	CSE 562 Mini-Micro Computers	Electrical Engineering	March 1987	J.f.Wakerly micro-computer Architecture and Programming, John Wiley	Harpreet Singh
34	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 512b Special Topics in Hydrology	Civil Engineering	Summer 1983		

33	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 561 construction planning and scheduling	Civil Engineering	Spring 1983		
32	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 599 special topics	Civil Engineering	Spring 1983		
31	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 572 Construction labor management	Civil Engineering	Spring 1983		
30	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 506 Heavy Construction Estimating	Civil Engineering	Spring 1983		
29	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 462 Construction methods and Equipment	Civil Engineering	Fall 1982		
28	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 501 Functions of the constructor	Civil Engineering	Fall 1982		
27	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 508 Mechanics of Solids II	Civil Engineering	Summer 1982		
26	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 525b Engineering Analysis	Civil Engineering	Summer 1982		
25	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Principles of building construction II	Civil Engineering	1980		
24	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Industrial engineering II	Civil Engineering	1980		
23	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced theory/Design of structures	Civil Engineering	1980		
22	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Structural concrete and steel	Civil Engineering	1980		
21	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced soil mechanics	Civil Engineering	1980		
20	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Group design project	Civil Engineering	1980		

19	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Advanced Mathematics	Civil Engineering	1979		
18	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Numerical methods and Statistics	Civil Engineering	1979		
17	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building construction I	Civil Engineering	1979		
16	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building services I	Civil Engineering	1979		
15	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Industrial Engineering I	Civil Engineering	1979		
14	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. FORTRAN programming	Civil Engineering	1979		
13	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Theory and design of structures	Civil Engineering	1979		
12	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Structural concrete	Civil Engineering	1979		
11	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Soil mechanics	Civil Engineering	1979		
10	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
9	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
8	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Principles of mechanical Engineering	Civil Engineering	1978		
7	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Construction materials	Civil Engineering	1978		
6	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Graphics communication/Design	Civil Engineering	1978		
5	GCE A-level	Stockton Billingham technical College, England	Physics	Physics	1977		
4	GCE A-level	Stockton Billingham technical College, England	Mathematics, University of London Board	Mathematics	1977		

3	GCE A-level	Stockton Billingham technical College, England	Further Mathematics University of London Board	Mathematics	1977		
2	GCE A-level	Stockton Billingham technical College, England	Pure Mathematics Associated examination Board	Mathematics	1977		
1	GCE A-level	Stockton Billingham technical College, England	Applied Mathematics Associated examination Board	Mathematics	1977		

## 2 Credit courses sorted by degree

### 2.1 Credit courses taken as a non-degree student (39)

No.	degree	university	course name	department	date	text book	instructor
39	Non-degree	University Of Wisconsin, Milwaukee	Math 322 Introduction to Partial differential equations  meeting: TuTh 2:00PM - 3:15PM EMS E160  discussion: N/A  finals: May 2018	Mathematics	Spring 2018	Elementary Differential Equations and Boundary Value Problems, 10th Edition. William E. Boyce, 200e Richard C. DiPrima	Hans Volkmer
38	Non-degree	University Of Wisconsin, Madison	ME 240 Dynamics  meeting: TuTh 1:20PM - 2:10PM ENGR HALL 1800  discussion: WeFr 9:55AM - 10:45AM, Wang,Shu 2108 MECH  finals: 12/18/2017 10:05AM 12:05PM	Mechanical Engineering	Fall 2017	Dynamics ISBN 9780077891145 by Gray, Costanzo, Plesha MCGRAW HILL, second edition	Sonny Aaron Nimityongskul
37	Non-degree	University Of Wisconsin, Madison	ME 440 Intermediate Vibrations  meeting: TuTh 11:00AM - 12:15PM MECH ENGR 2108  discussion: N/A  finals: 12/16/2017 2:45PM 4:45PM	Mechanical Engineering	Fall 2017	S. S. Rao Mechanical vibration 4th edition	Andrew Mikkelson

36	Non-degree	University Of Wisconsin, Madison	EP 548 Engineering Analysis II  meeting: TuTh 11:00AM - 12:15PM VAN VLECK B341  discussion: N/A  finals: 05/11/2017 10:05AM 12:05PM	Engineering Physics	Fall 2017	Advanced Mathematical Methods for Scientists and Engineers I, Bender and Orszag. Applied Partial Differential Equations, Haberman	Leslie Smith
35	Non-degree	University Of Wisconsin, Madison	Math 320 Linear algebra and differential equations  meeting: TuTh 9:30AM - 10:45AM VAN VLECK B239  discussion: Mo 8:50AM - 9:40AM VAN VLECK B115  finals: 05/07/2017 7:25PM 9:25PM	Mathematics	Fall 2016	Differential Equations and Linear Algebra by Edwards and Penney	Leslie Smith
34	Non-degree	University Of Wisconsin, Madison	Math 322 Applied Mathematical Analysis  meeting: MWF, 12:05-12:55 Van Hise 115  discussion: N/A  finals: Sat dec 17, 5:05 PM to 7:05 PM.	Mathematics	Fall 2016	Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5th ed. Richard Haberman	Leslie Smith
33	Non-degree	University Of Wisconsin, Madison	Math 319: Techniques in Ordinary Differential Equations  meeting: MoWeFr 2:25PM - 3:15PM, VAN VLECK B239  finals: Dec 22, 2016 12:25 PM-2:25 PM	Mathematics	Fall 2016	Elementary Differential Equations, 9th ed by William E. Boyce, Richard C. DiPrima	Minh-Binh Tran
32	Non-degree	University Of Wisconsin, Madison	ECE 719, Optimal systems  meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418  finals: May 5 2016, 9:30 AM	Electrical Engineering	Spring 2016	Class notes	B. R. Barmish

31	Non-degree	University Of Wisconsin, Madison	EMA 471 Intermediate Problem Solving for Engineers  meeting: TuTh 8:00AM - 9:15AM ENGR HALL 2261  finals: 05/12/2016 7:45AM 9:45AM	Engineering Mechanics	Spring 2016	Class notes	Robert J. Witt
30	Non-degree	University Of Wisconsin, Madison	ECE 332, feedback control  meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418  finals: 12/10/2015, 9:30 AM	Electrical Engineering	Fall 2015	Class notes	B. R. Barmish
29	Non-degree	University Of Wisconsin, Madison	Physics 311 (Mechanics)  meeting: MWF 11:00AM - 11:50AM, VAN HISE 494  discussion: Th 1:20PM - 2:10PM CHAMBERLIN 2108  finals: 12/17/2015 5:05PM	Physics	Fall 2015	S.T. Thornton, J.B. Marion, Classical Dynamics of Particles and Systems, 5th Edition, Brooks/Cole, 2004, ISBN 0534408966	Stefan Westerhoff
28	Non-degree	University Of Wisconsin, Madison	ECE/ME 739, Introduction to Robotics	Electrical Engineering	Spring 2015	Robot Modeling and Control, by Spong, Hutchinson, and Vidyasagar ISBN 0-471-64990-2	Michael Zinn
27	Non-degree	University of California, Davis	EME 121 Engineering applications of dynamics	Mechanical Engineering	Spring 2011	Engineering applications of dynamics by Karnopp and Margolis	Donald Margolis
26	Non-degree	University of California, Davis	Math 228B Numerical Solution of Differential Equations	Mathematics	Winter 2011	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque	Robert Guy
25	Non-degree	University of California, Davis	Math 228A Numerical Solution of Differential Equations	Mathematics	Fall 2010	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque	Robert Guy
24	Non-degree	Cal Poly Pomona, California	ECE 405 Communication systems	Electrical Engineering	Summer session I 2010	Modern digital and analog communication systems by Lathi	James Kang
23	Non-degree	California state University Fullerton	EGEE 420 Digital filters	Electrical Engineering	Spring 2010	DIGITAL SIGNAL PROCESSING by OPPENHEIM	Mostafa Shiva

22	Non-degree	California state University Fullerton	EGEE 409 Linear systems and signals	Electrical Engineering	Spring 2010	Signals and linear systems by Gabel and Roberts, 3rd ed	Mohinder S. Grewal
21	Non-degree	California state University Fullerton	EGME 511 Advanced Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition	Sang June Oh
20	Non-degree	California state University Fullerton	EGME 431 Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition	Sang June Oh
19	Non-degree	University Of California, Irvine	EECS 207A Advanced Image processing	Electrical Engineering	Fall 2004	Algorithms for Image Processing and computer vision, J.R.Parker	Joerg Meyer
18	Non-degree	University Of California, Irvine	EECS 152A Digital Signal processing	Electrical Engineering	Fall 2004	DSP by Proakis and Manolakis, 3rd edition	Glenn Healey
17	Non-degree	University Of California, Irvine	EECS 203A Digital Image processing	Electrical Engineering	Fall 2004	Digital image processing, 2nd edition by Gonzales and Woods	Glenn Healey
16	Non-degree	University Of California, Irvine	MAE 91 Introduction To Thermodynamics	Mechanical Engineering	Summer 2004	FUNDAMENTALS THERMODYNAMICS by SONNTAG	Hong Zhou
15	Non-degree	University Of California, Berkeley	MATH 121B Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition	Richard E. Borchers
14	Non-degree	University Of California, Berkeley	MATH 121A Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition	Fraydoun Reza-khanlou
13	Non-degree	University Of California, Irvine	Physics 7LD Classical Physics 7D Lab	Physics	Summer 2003	Lab notes	Roger D. McWilliams
12	Non-degree	University Of California, Irvine	Physics 7D Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner	Roger D. McWilliams
11	Non-degree	University Of California, Irvine	Physics 7E Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner	Roger D. McWilliams
10	Non-degree	University Of California, Irvine	MAE 185 Applied Numerical Analysis	Mechanical Engineering	Spring 2003	Applied Numerical Analysis, C.F. Gerald and P.O. Wheatley, 5th Edition	Maqsood Chaudhry
9	Non-degree	University Of California, Irvine	MAE 146 Astronautics	Mechanical Engineering	Spring 2003	Fundamentals of Astrodynamics, R.R. Bate, D.D. Mueller, J.E. White, Dover	Melissa Orme
8	Non-degree	University Of California, Berkeley	Math 127 Mathematical and Computational Methods in Molecular Biology	Mathematics	Fall 2002	Biological sequence analysis: probabilistic models of proteins and nucleic acids By Richard Durbin	Lior Pachter
7	Non-degree	California State University, San Jose	Physics 240 Computational Physics	Physics	Fall 2002	BNumerical Methods for Physics, 2nd Edition. A.L.Garcia	Alejandro Garcia
6	Non-degree	University of Massachusetts, Lowell, MA	MATH 92.306 Real Analysis II	Mathematics	Summer 1992	Introduction to real analysis, By Barbence. And advanced calculus by Buck	James Graham-Eagle

5	Non-degree	Boston University, Boston, MA	CSE 635 Local Area Networks: Design and Implementation	Computer Science	Fall 1990	Local Networks, Second Edition, by Stalling, William	Mikhail Orlov
4	Non-degree	University Of Washington, Seattle, WA	CSE 524 Parallel Algorithms	Computer Science	March 1990		Richard Anderson
3	Non-degree	University Of California, Santa Barbara	CSE 274 Advanced Topics in Data Base	Computer Science	March 1989	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley	Divyakant Agrawal
2	Non-degree	Wayne State University, Detroit, Michigan	CSE 531 Computer Organization	Electrical Engineering	March 1987	Computer Design and Architecture by Sajjan G. Shirva	Aridam Guptaray
1	Non-degree	Wayne State University, Detroit, Michigan	CSE 562 Mini-Micro Computers	Electrical Engineering	March 1987	J.f.Wakerly micro-computer Architecture and Programming, John Wiley	Harpreet Singh

## 2.2 MS Engineering Mechanics (8)

No.	degree	university	course name	department	date	text book	instructor
8	MS Engineering Mechanics	University Of Wisconsin, Madison	Math 703 methods of applied mathematics I  meeting: Mu,Thu 11:00AM - 12:15PM VAN VLECK B139	Mathematics	Fall 2014	Introduction to Applied Mathematics, ISBN 0961408804 by Gilbert Strang	Gheorghe Craciun
7	MS Engineering Mechanics	University Of Wisconsin, Madison	ECE 717 Linear systems  meeting: TuTh 2:30PM - 3:45PM ENG HALL 3444  finals: 12/18/2014 10:05AM	Electrical Engineering	Fall 2014	Linear System Theory (second edition) ISBN 0134412052 by W.J. Rugh	B. R. Barmish
6	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 550 astrody-namics  meeting: TuTh 2:30PM - 3:45PM ENGR HALL 2265  finals: 05/15/2014 12:25PM 2:25PM	Engineering Mechanics	Spring 2014	class notes	Suzannah Sandrik
5	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 523 flight dynamics and control  meeting: Tue, Thu, 11:00AM - 12:00PM  finals: Tu,Th 9:30AM - 10:45AM ENGR HALL 1209	Engineering Mechanics	Spring 2014	Dynamics of flight, stability and control, 3rd ed Wiley, Etkin B. and Reid L.D. 1996	Riccardo Bonazza



4	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 542 Advanced Dynamics  meeting: M W F 9:55AM - 10:45AM ENGR HALL 2255  finals: 12/19/2013 12:25PM 2:25PM	Engineering Mechanics	Fall 2013	Engineering Dynamics by Ginsberg Class notes	Daniel C. Kammer
3	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 547 Engineering analysis 1  meeting: M W F 11:00AM - 11:50AM ENGR HALL 2305  finals: 12/20/2013 10:05AM 12:05PM	Engineering Mechanics	Fall 2013	Advanced Engineering Mathematics, Peter V. O'Neil 6th ed	Douglass L. Henderson
2	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 545 Engineering Vibration	Engineering Mechanics	Spring 2013	Mechanical and Structural Vibration by Ginsberg	Matt Allen
1	MS Engineering Mechanics	University Of Wisconsin, Madison	CEE 744 Structural Dynamics and Earthquake Engineering	Civil Engineering	Spring 2013	Dynamics of Structures, Anil K. Chopra, Prentice-Hall	Michael Oliva

## 2.3 MS Applied Mathematics (10)

No.	degree	university	course name	department	date	text book	instructor
10	MS Applied Mathematics	California state University Fullerton	EGEE 518 Digital Signal Processing I	Electrical Engineering	Fall 2008	DIGITAL SIGNAL PROCESSING by OPPENHEIM	Mostafa Shiva
9	MS Applied Mathematics	California state University Fullerton	EGEE 443 Electronic Communication Systems	Electrical Engineering	Fall 2008	INTRODUCTION TO ANALOG and DIGITAL COMMUNICATIONS By HAYKIN	Karim Hamidian
8	MS Applied Mathematics	California state University Fullerton	Math 597 B Finals Research	Applied Mathematics	Summer 2008		Angel R. Pineda
7	MS Applied Mathematics	California state University Fullerton	Math 597 A Finals Research	Applied Mathematics	Summer 2008		W. B. Gearhart
6	MS Applied Mathematics	California state University Fullerton	Math 504 Simulation Modeling and Analysis	Applied Mathematics	Spring 2008	Lecture notes by Dr Gearhart. Reference book: Introduction to probability models by Sheldon Ross	W. B. Gearhart
5	MS Applied Mathematics	California state University Fullerton	Math 502 Probability and Statistics	Applied Mathematics	Fall 2007	Mathematical statistics and data analysis 3rd edition. By John Rice	Mori Jamshidian
4	MS Applied Mathematics	California state University Fullerton	Math 503 Mathematical Modeling	Applied Mathematics	Summer 2007	Applied Mathematics 3rd edition by David Logan	W. B. Gearhart
3	MS Applied Mathematics	California state University Fullerton	Math 499 independent studies	Applied Mathematics	Spring 2007	Applied Mathematics 3rd edition by David Logan	Angel R. Pineda

2	MS Applied Mathematics	California state University Fullerton	Math 501 Numerical Analysis and computation	Applied Mathematics	Spring 2007	Numerical Analysis 3rd edition. by David R. Kincaid, E. Ward Cheney	C. H. Lee
1	MS Applied Mathematics	California state University Fullerton	Math 307 Linear Algebra	Applied Mathematics	Spring 2007	Linear Algebra and its Applications 4th edition. By Gilbert Strang	Angel R. Pineda

## 2.4 MS Mechanical Engineering (12)

No.	degree	university	course name	department	date	text book	instructor
12	MS Mechanical Engineering	University Of California, Irvine	CE 247 Structural Dynamics	Civil Engineering	Fall 2006	Structural Dynamics. 5th edition. Mario PAZ	Maria Q. Feng
11	MS Mechanical Engineering	University Of California, Irvine	PHY 100 Computational Methods in Physics	Physics	Fall 2006	Instructor own Mathematica Handbook	Peter Taborek
10	MS Mechanical Engineering	University Of California, Irvine	MAE 299 research 1 unit	Mechanical Engineering	Spring 2006		A. Sideris
9	MS Mechanical Engineering	University Of California, Irvine	MAE 207 Computational methods	Mechanical Engineering	Spring 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N. Atluri	S. N. Atluri
8	MS Mechanical Engineering	University Of California, Irvine	MAE 244 Theoretical Kinematics	Mechanical Engineering	Spring 2006	Introduction to theoretical kinematics, by J.M.McCarthy	J.M. McCarthy
7	MS Mechanical Engineering	University Of California, Irvine	MAE 295 Solid mechanics	Mechanical Engineering	Winter 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N.Atluri	S.N. Atluri
6	MS Mechanical Engineering	University Of California, Irvine	MAE 200B Engineering Analysis II	Mechanical Engineering	Winter 2006	Instructor notes	Feng Liu
5	MS Mechanical Engineering	University Of California, Irvine	MAE 270A Linear Systems 1	Mechanical Engineering	Fall 2005	Instructor notes	A. Sideris
4	MS Mechanical Engineering	University Of California, Irvine	MAE 200A Engineering Analysis 1	Mechanical Engineering	Fall 2005	Instructor notes	K.D. Mease
3	MS Mechanical Engineering	University Of California, Irvine	MAE 171 Digital Control	Mechanical Engineering	Spring 2005	Digital Control System Analysis and Design. 3rd edition. By Charles Phillips and H. Troy Nagle	A. Sideris
2	MS Mechanical Engineering	University Of California, Irvine	MAE 170 Introduction to control systems	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition	James Bobrow
1	MS Mechanical Engineering	University Of California, Irvine	MAE 106 Mechanical Systems Lab	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition	David J. Reinkensmeyer

## 2.5 MS Electrical Engineering (15)

No.	degree	university	course name	department	date	text book	instructor
15	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3311 Software engineering 1	Electrical Engineering	Fall 1993		David R. Kaeli
14	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3341 Probability and stochastic processes	Electrical Engineering	Fall 1993		Vinay K. Ingle
13	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3325 Numerical software development methods	Electrical Engineering	March 1993	Numerical software, by Dr Nash. 1989	Wilfred J. Remillard
12	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3386 Characteristics and models of solid state devices I-B	Electrical Engineering	January 1993	semiconductor Device Physics and Technology, by S.M. Sze, John Wiley and Sons, 1985	Nagappan K. Annamalai
11	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3342 Electromagnetic theory I-A	Electrical Engineering	Fall 1992	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington	Charles J. Drane
10	MS Electrical Engineering	University of Massachusetts, Amherst, MA	ECE 580 Feedback control systems	Electrical Engineering	Summer 1992	Modern Control Engineering, by K. Ogata, 2nd edition, Prentice Hall, 1990	Wei-Bo Gong
9	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3371 Linear Optimal Control Theory I	Electrical Engineering	March 1992	Linear Optimal Control Systems. by Kwakwenaak and Sivan	Gilead Tadmor
8	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3321 Digital Signal Processing	Electrical Engineering	March 1992	Digital Signal Processing by Proakis, Macmillan and Manolakis	Ram Raghavan
7	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3221 Linear Systems Analysis	Electrical Engineering	January 1992	Computer Aided Analysis and Design of Linear control systems. B. Shafi. Prentice Hall	Bahram Shafai
6	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3211 Mathematical Methods in EE I	Electrical Engineering	Fall 1991	Engineering Analysis , Vector Space approach by Robert J. Schilling , Hua Lee. Finite Dimensional Vector Space, by R.Halmos	Gilead Tadmor
5	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3100 Introduction to circuits and Systems I	Electrical Engineering	Fall 1991	Linear Circuits Analysis by S. Madhu	William J. Bintz
4	MS Electrical Engineering	University of Massachusetts, Amherst, MA	MATH 697P Mathematical Methods For Science And Engineering I	Mathematics	Summer 1991	Mathematical Physics, E.Butkov, Addison Wesley	Donald F St. Mary
3	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3102 Introduction to Electromagnetic Field Theory I	Electrical Engineering	March 1991	Field And Wave Electromagnetics, by David K. Cheng	Charles J. Drane
2	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3101 Microelectronics I	Electrical Engineering	January 1991	Microelectronics by Jacob Millman, Arvin Grabelg	Bill Bintz
1	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3108 Signals and Systems	Electrical Engineering	January 1991	Signals And Systems By Alan V. Oppenheim, Alan S. Willsky	Lisa Shatz

## 2.6 MS Computer Science (9)

No.	degree	university	course name	department	date	text book	instructor
9	MS Computer Science	Oakland University, Michigan	CSE 565 Compiler Construction	Computer Science	Fall 1988	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley	Ronald J. Srodawa
8	MS Computer Science	Oakland University, Michigan	CSE 535 Programming languages design	Computer Science	Fall 1988	Programming Languages: Design and Implementation, Terrence W. Pratt, Marvin V. Zelkowitz	Ronald J. Srodawa
7	MS Computer Science	Oakland University, Michigan	CSE 550 Operating Systems	Computer Science	March 1988	Milenkovic, Operating Systems, McGraw Hillz	David E. Boddy
6	MS Computer Science	Oakland University, Michigan	CSE 542 Algorithms	Computer Science	March 1988	Data structures and Algorithms. by Aho,Hopcraft and Ullman	James H. McKay
5	MS Computer Science	Oakland University, Michigan	CSE 502 Hardware Logic design	Computer Science	January 1988	Motorola MC6800 Microprocessor family assembly language, Interface design and system design	Subramaniam Ganesan
4	MS Computer Science	Oakland University, Michigan	CSE 504 Discrete structures and Foundation of computer science	Computer Science	January 1988	A.Doerr, K.Levasseur. by Applied Discrete Structures for computer science, SRA 1985	Thomas G. Windeknecht
3	MS Computer Science	Oakland University, Michigan	CSE 538 Programming methodology	Computer Science	Fall 1987	Systematic Software development using VDM. by C.B.Jones	Janusz Laski
2	MS Computer Science	Oakland University, Michigan	APM 563 Discrete methods	Mathematics	Fall 1987	Albert Tucker, Applied Combinatorals	
1	MS Computer Science	Oakland University, Michigan	CSE 516 Artificial Intelligence	Computer Science	Summer 1987	AI by Patrick Henry Winston	

## 2.7 MS Civil Engineering (9)

No.	degree	university	course name	department	date	text book	instructor
9	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 512b Special Topics in Hydrology	Civil Engineering	Summer 1983		
8	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 561 construction planning and scheduling	Civil Engineering	Spring 1983		
7	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 599 special topics	Civil Engineering	Spring 1983		

6	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 572 Construction labor management	Civil Engineering	Spring 1983		
5	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 506 Heavy Construction Estimating	Civil Engineering	Spring 1983		
4	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 462 Construction methods and Equipment	Civil Engineering	Fall 1982		
3	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 501 Functions of the constructor	Civil Engineering	Fall 1982		
2	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 508 Mechanics of Solids II	Civil Engineering	Summer 1982		
1	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 525b Engineering Analysis	Civil Engineering	Summer 1982		

## 2.8 B.Eng Civil/Building Engineering (20)

No.	degree	university	course name	department	date	text book	instructor
20	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Principles of building construction II	Civil Engineering	1980		
19	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Industrial engineering II	Civil Engineering	1980		
18	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced theory/Design of structures	Civil Engineering	1980		
17	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Structural concrete and steel	Civil Engineering	1980		
16	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced soil mechanics	Civil Engineering	1980		
15	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Group design project	Civil Engineering	1980		
14	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Advanced Mathematics	Civil Engineering	1979		

13	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	2nd year. Numer- ical methods and Statistics	Civil En- gineering	1979		
12	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	2nd year. Principles of building construc- tion I	Civil En- gineering	1979		
11	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	2nd year. Principles of building services I	Civil En- gineering	1979		
10	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	2nd year. Industrial Engineering I	Civil En- gineering	1979		
9	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	2nd year. FOR- TRAN program- ming	Civil En- gineering	1979		
8	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	2nd year. Theory and design of struc- tures	Civil En- gineering	1979		
7	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	2nd year. Struc- tural concrete	Civil En- gineering	1979		
6	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	2nd year. Soil me- chanics	Civil En- gineering	1979		
5	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	1st year. Environ- mental science	Civil En- gineering	1978		
4	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	1st year. Environ- mental science	Civil En- gineering	1978		
3	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	1st year. Principles of mechanical Engi- neering	Civil En- gineering	1978		
2	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	1st year. Construc- tion materials	Civil En- gineering	1978		
1	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	1st year. Graphics communication/De- sign	Civil En- gineering	1978		

### 3 Official courses sorted by University

#### 3.1 University of Wisconsin-Milwaukee (1)

#### 3.2 University of Wisconsin-Madison (19)

No.	degree	university	course name	depart- ment	date	text book	instructor
-----	--------	------------	-------------	-----------------	------	-----------	------------

19	Non-degree	University Of Wisconsin, Madison	ME 240 Dynamics meeting: TuTh 1:20PM - 2:10PM ENGR HALL 1800  discussion: WeFr 9:55AM - 10:45AM, Wang,Shu 2108 MECH  finals: 12/18/2017 10:05AM 12:05PM	Mechanical Engineering	Fall 2017	Dynamics ISBN 9780077891145 by Gray, Costanzo, Plesha MCGRAW HILL, second edition	Sonny Aaron Nimityongskul
18	Non-degree	University Of Wisconsin, Madison	ME 440 Intermediate Vibrations meeting: TuTh 11:00AM - 12:15PM MECH ENGR 2108  discussion: N/A  finals: 12/16/2017 2:45PM 4:45PM	Mechanical Engineering	Fall 2017	S. S. Rao Mechanical vibration 4th edition	Andrew Mikkelson
17	Non-degree	University Of Wisconsin, Madison	EP 548 Engineering Analysis II meeting: TuTh 11:00AM - 12:15PM VAN VLECK B341  discussion: N/A  finals: 05/11/2017 10:05AM 12:05PM	Engineering Physics	Fall 2017	Advanced Mathematical Methods for Scientists and Engineers I, Bender and Orszag. Applied Partial Differential Equations, Haberman	Leslie Smith
16	Non-degree	University Of Wisconsin, Madison	Math 320 Linear algebra and differential equations meeting: TuTh 9:30AM - 10:45AM VAN VLECK B239  discussion: Mo 8:50AM - 9:40AM VAN VLECK B115  finals: 05/07/2017 7:25PM 9:25PM	Mathematics	Fall 2016	Differential Equations and Linear Algebra by Edwards and Penney	Leslie Smith
15	Non-degree	University Of Wisconsin, Madison	Math 322 Applied Mathematical Analysis meeting: MWF, 12:05-12:55 Van Hise 115  discussion: N/A  finals: Sat dec 17, 5:05 PM to 7:05 PM.	Mathematics	Fall 2016	Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5th ed. Richard Haberman	Leslie Smith

14	Non-degree	University Of Wisconsin, Madison	Math 319: Techniques in Ordinary Differential Equations  meeting: MoWeFr 2:25PM - 3:15PM, VAN VLECK B239  finals: Dec 22, 2016 12:25 PM-2:25 PM	Mathematics	Fall 2016	Elementary Differential Equations, 9th ed by William E. Boyce, Richard C. DiPrima	Minh-Binh Tran
13	Non-degree	University Of Wisconsin, Madison	ECE 719, Optimal systems  meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418  finals: May 5 2016, 9:30 AM	Electrical Engineering	Spring 2016	Class notes	B. R. Barmish
12	Non-degree	University Of Wisconsin, Madison	EMA 471 Intermediate Problem Solving for Engineers  meeting: TuTh 8:00AM - 9:15AM ENGR HALL 2261  finals: 05/12/2016 7:45AM 9:45AM	Engineering Mechanics	Spring 2016	Class notes	Robert J. Witt
11	Non-degree	University Of Wisconsin, Madison	ECE 332, feedback control  meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418  finals: 12/10/2015, 9:30 AM	Electrical Engineering	Fall 2015	Class notes	B. R. Barmish
10	Non-degree	University Of Wisconsin, Madison	Physics 311 (Mechanics)  meeting: MWF 11:00AM - 11:50AM, VAN HISE 494  discussion: Th 1:20PM - 2:10PM CHAMBERLIN 2108  finals: 12/17/2015 5:05PM	Physics	Fall 2015	S.T. Thornton, J.B. Marion, Classical Dynamics of Particles and Systems, 5th Edition, Brooks/Cole, 2004, ISBN 0534408966	Stefan Westerhoff
9	Non-degree	University Of Wisconsin, Madison	ECE/ME 739, Introduction to Robotics	Electrical Engineering	Spring 2015	Robot Modeling and Control, by Spong, Hutchinson, and Vidyasagar ISBN ISBN 0-471-64990-2	Michael Zinn



8	MS Engineering Mechanics	University Of Wisconsin, Madison	Math 703 methods of applied mathematics I  meeting: Mu,Thu 11:00AM - 12:15PM VAN VLECK B139	Mathematics	Fall 2014	Introduction to Applied Mathematics, ISBN 0961408804 by Gilbert Strang	Gheorghe Craciun
7	MS Engineering Mechanics	University Of Wisconsin, Madison	ECE 717 Linear systems  meeting: TuTh 2:30PM - 3:45PM ENG HALL 3444  finals: 12/18/2014 10:05AM	Electrical Engineering	Fall 2014	Linear System Theory (second edition) ISBN 0134412052 by W.J. Rugh	B. R. Barmish
6	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 550 astrodynamics  meeting: TuTh 2:30PM - 3:45PM ENGR HALL 2265  finals: 05/15/2014 12:25PM 2:25PM	Engineering Mechanics	Spring 2014	class notes	Suzannah Sandrik
5	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 523 flight dynamics and control  meeting: Tue, Thu, 11:00AM - 12:00PM  finals: Tu,Th 9:30AM - 10:45AM ENGR HALL 1209	Engineering Mechanics	Spring 2014	Dynamics of flight, stability and control, 3rd ed Wiley, Etkin B. and Reid L.D. 1996	Riccardo Bonazza
4	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 542 Advanced Dynamics  meeting: M W F 9:55AM - 10:45AM ENGR HALL 2255  finals: 12/19/2013 12:25PM 2:25PM	Engineering Mechanics	Fall 2013	Engineering Dynamics by Ginsberg Class notes	Daniel C. Kammer
3	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 547 Engineering analysis 1  meeting: M W F 11:00AM - 11:50AM ENGR HALL 2305  finals: 12/20/2013 10:05AM 12:05PM	Engineering Mechanics	Fall 2013	Advanced Engineering Mathematics, Peter V. ONeil 6th ed	Douglass L. Henderson
2	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 545 Engineering Vibration	Engineering Mechanics	Spring 2013	Mechanical and Structural Vibration by Ginsberg	Matt Allen
1	MS Engineering Mechanics	University Of Wisconsin, Madison	CEE 744 Structural Dynamics and Earthquake Engineering	Civil Engineering	Spring 2013	Dynamics of Structures, Anil K. Chopra, Prentice-Hall	Michael Oliva

### 3.3 University of California, Davis (3)

No.	degree	university	course name	department	date	text book	instructor
3	Non-degree	University of California, Davis	EME 121 Engineering applications of dynamics	Mechanical Engineering	Spring 2011	Engineering applications of dynamics by Karnopp and Margolis	Donald Margolis
2	Non-degree	University of California, Davis	Math 228B Numerical Solution of Differential Equations	Mathematics	Winter 2011	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque	Robert Guy
1	Non-degree	University of California, Davis	Math 228A Numerical Solution of Differential Equations	Mathematics	Fall 2010	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque	Robert Guy

### 3.4 Cal Poly Pomona, California (1)

No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	Cal Poly Pomona, California	ECE 405 Communication systems	Electrical Engineering	Summer session I 2010	Modern digital and analog communication systems by Lathi	James Kang

### 3.5 California state University, Fullerton (14)

No.	degree	university	course name	department	date	text book	instructor
14	Non-degree	California state University Fullerton	EGEE 420 Digital filters	Electrical Engineering	Spring 2010	DIGITAL SIGNAL PROCESSING by OPPENHEIM	Mostafa Shiva
13	Non-degree	California state University Fullerton	EGEE 409 Linear systems and signals	Electrical Engineering	Spring 2010	Signals and linear systems by Gabel and Roberts, 3rd ed	Mohinder S. Grewal
12	Non-degree	California state University Fullerton	EGME 511 Advanced Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition	Sang June Oh
11	Non-degree	California state University Fullerton	EGME 431 Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition	Sang June Oh
10	MS Applied Mathematics	California state University Fullerton	EGEE 518 Digital Signal Processing I	Electrical Engineering	Fall 2008	DIGITAL SIGNAL PROCESSING by OPPENHEIM	Mostafa Shiva
9	MS Applied Mathematics	California state University Fullerton	EGEE 443 Electronic Communication Systems	Electrical Engineering	Fall 2008	INTRODUCTION TO ANALOG and DIGITAL COMMUNICATIONS By HAYKIN	Karim Hamidian
8	MS Applied Mathematics	California state University Fullerton	Math 597 B Finals Research	Applied Mathematics	Summer 2008		Angel R. Pineda
7	MS Applied Mathematics	California state University Fullerton	Math 597 A Finals Research	Applied Mathematics	Summer 2008		W. B. Gearhart

6	MS Applied Mathematics	California state University Fullerton	Math 504 Simulation Modeling and Analysis	Applied Mathematics	Spring 2008	Lecture notes by Dr Gearhart. Reference book: Introduction to probability models by Sheldon Ross	W. B. Gearhart
5	MS Applied Mathematics	California state University Fullerton	Math 502 Probability and Statistics	Applied Mathematics	Fall 2007	Mathematical statistics and data analysis 3rd edition. By John Rice	Mori Jamshidian
4	MS Applied Mathematics	California state University Fullerton	Math 503 Mathematical Modeling	Applied Mathematics	Summer 2007	Applied Mathematics 3rd edition by David Logan	W. B. Gearhart
3	MS Applied Mathematics	California state University Fullerton	Math 499 independent studies	Applied Mathematics	Spring 2007	Applied Mathematics 3rd edition by David Logan	Angel R. Pineda
2	MS Applied Mathematics	California state University Fullerton	Math 501 Numerical Analysis and computation	Applied Mathematics	Spring 2007	Numerical Analysis 3rd edition. by David R. Kincaid, E. Ward Cheney	C. H. Lee
1	MS Applied Mathematics	California state University Fullerton	Math 307 Linear Algebra	Applied Mathematics	Spring 2007	Linear Algebra and its Applications 4th edition. By Gilbert Strang	Angel R. Pineda

### 3.6 University Of California, Irvine (21)

No.	degree	university	course name	department	date	text book	instructor
21	MS Mechanical Engineering	University Of California, Irvine	CE 247 Structural Dynamics	Civil Engineering	Fall 2006	Structural Dynamics. 5th edition. Mario PAZ	Maria Q. Feng
20	MS Mechanical Engineering	University Of California, Irvine	PHY 100 Computational Methods in Physics	Physics	Fall 2006	Instructor own Mathematica Handbook	Peter Taborek
19	MS Mechanical Engineering	University Of California, Irvine	MAE 299 research 1 unit	Mechanical Engineering	Spring 2006		A. Sideris
18	MS Mechanical Engineering	University Of California, Irvine	MAE 207 Computational methods	Mechanical Engineering	Spring 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N. Atluri	S. N. Atluri
17	MS Mechanical Engineering	University Of California, Irvine	MAE 244 Theoretical Kinematics	Mechanical Engineering	Spring 2006	Introduction to theoretical kinematics, by J.M.McCarthy	J.M. McCarthy
16	MS Mechanical Engineering	University Of California, Irvine	MAE 295 Solid mechanics	Mechanical Engineering	Winter 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N.Atluri	S.N. Atluri
15	MS Mechanical Engineering	University Of California, Irvine	MAE 200B Engineering Analysis II	Mechanical Engineering	Winter 2006	Instructor notes	Feng Liu
14	MS Mechanical Engineering	University Of California, Irvine	MAE 270A Linear Systems 1	Mechanical Engineering	Fall 2005	Instructor notes	A. Sideris
13	MS Mechanical Engineering	University Of California, Irvine	MAE 200A Engineering Analysis 1	Mechanical Engineering	Fall 2005	Instructor notes	K.D. Mease

12	MS Mechanical Engineering	University Of California, Irvine	MAE 171 Digital Control	Mechanical Engineering	Spring 2005	Digital Control System Analysis and Design. 3rd edition. By Charles Phillips and H. Troy Nagle	A. Sideris
11	MS Mechanical Engineering	University Of California, Irvine	MAE 170 Introduction to control systems	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition	James Bobrow
10	MS Mechanical Engineering	University Of California, Irvine	MAE 106 Mechanical Systems Lab	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition	David J. Reinkensmeyer
9	Non-degree	University Of California, Irvine	EECS 207A Advanced Image processing	Electrical Engineering	Fall 2004	Algorithms for Image Processing and computer vision, J.R.Parker	Joerg Meyer
8	Non-degree	University Of California, Irvine	EECS 152A Digital Signal processing	Electrical Engineering	Fall 2004	DSP by Proakis and Manolakis, 3rd edition	Glenn Healey
7	Non-degree	University Of California, Irvine	EECS 203A Digital Image processing	Electrical Engineering	Fall 2004	Digital image processing, 2nd edition by Gonzales and Woods	Glenn Healey
6	Non-degree	University Of California, Irvine	MAE 91 Introduction To Thermodynamics	Mechanical Engineering	Summer 2004	FUNDAMENTALS THERMODYNAMICS by SONNTAG	Hong Zhou
5	Non-degree	University Of California, Irvine	Physics 7LD Classical Physics 7D Lab	Physics	Summer 2003	Lab notes	Roger D. McWilliams
4	Non-degree	University Of California, Irvine	Physics 7D Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner	Roger D. McWilliams
3	Non-degree	University Of California, Irvine	Physics 7E Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner	Roger D. McWilliams
2	Non-degree	University Of California, Irvine	MAE 185 Applied Numerical Analysis	Mechanical Engineering	Spring 2003	Applied Numerical Analysis, C.F. Gerald and P.O. Wheatley, 5th Edition	Maqsood Chaudhry
1	Non-degree	University Of California, Irvine	MAE 146 Astronautics	Mechanical Engineering	Spring 2003	Fundamentals of Astrodynamics, R.R. Bate, D.D. Mueller, J.E. White, Dover	Melissa Orme

### 3.7 University Of California, Berkeley (3)

No.	degree	university	course name	department	date	text book	instructor
3	Non-degree	University Of California, Berkeley	MATH 121B Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition	Richard E. Borcherds
2	Non-degree	University Of California, Berkeley	MATH 121A Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition	Fraydoun Reza-khanlou
1	Non-degree	University Of California, Berkeley	Math 127 Mathematical and Computational Methods in Molecular Biology	Mathematics	Fall 2002	Biological sequence analysis: probabilistic models of proteins and nucleic acids By Richard Durbin	Lior Pachter

### 3.8 California State University, San Jose (1)

No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	California State University, San Jose	Physics 240 Computational Physics	Physics	Fall 2002	BNumerical Methods for Physics, 2nd Edition. A.L.Garcia	Alejandro Garcia

### 3.9 Northeastern University, Boston, MA (13)

No.	degree	university	course name	department	date	text book	instructor
13	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3311 Software engineering 1	Electrical Engineering	Fall 1993		David R. Kaeli
12	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3341 Probability and stochastic processes	Electrical Engineering	Fall 1993		Vinay K. Ingle
11	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3325 Numerical software development methods	Electrical Engineering	March 1993	Numerical software, by Dr Nash. 1989	Wilfred J. Remillard
10	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3386 Characteristics and models of solid state devices I-B	Electrical Engineering	January 1993	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985	Nagappan K. Annamalai
9	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3342 Electromagnetic theory I-A	Electrical Engineering	Fall 1992	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington	Charles J. Drane
8	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3371 Linear Optimal Control Theory I	Electrical Engineering	March 1992	Linear Optimal Control Systems. by Kwakwenaak and Sivan	Gilead Tadmor
7	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3321 Digital Signal Processing	Electrical Engineering	March 1992	Digital Signal Processing by Proakis, Macmillan and Manolakis	Ram Raghavan
6	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3221 Linear Systems Analysis	Electrical Engineering	January 1992	Computer Aided Analysis and Design of Linear control systems. B. Shafi. Prentice Hall	Bahram Shafai
5	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3211 Mathematical Methods in EE I	Electrical Engineering	Fall 1991	Engineering Analysis , Vector Space approach by Robert J. Schilling , Hua Lee. Finite Dimensional Vector Space, by R.Halmos	Gilead Tadmor
4	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3100 Introduction to circuits and Systems I	Electrical Engineering	Fall 1991	Linear Circuits Analysis by S. Madhu	William J. Bintz
3	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3102 Introduction to Electromagnetic Field Theory I	Electrical Engineering	March 1991	Field And Wave Electromagnetics, by David K. Cheng	Charles J. Drane
2	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3101 Microelectronics I	Electrical Engineering	January 1991	Microelectronics by Jacob Millman, Arvin Grabelg	Bill Bintz

1	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3108 Signals and Systems	Electrical Engineering	January 1991	Signals And Systems By Alan V. Oppenheim, Alan S. Willsky	Lisa Shatz
---	---------------------------	-------------------------------------	------------------------------	------------------------	--------------	---	------------

### 3.10 University of Massachusetts, Amherst, MA (2)

No.	degree	university	course name	department	date	text book	instructor
2	MS Electrical Engineering	University of Massachusetts, Amherst, MA	ECE 580 Feedback control systems	Electrical Engineering	Summer 1992	Modern Control Engineering, by K. Ogata, 2nd edition, Prentice Hall, 1990	Wei-Bo Gong
1	MS Electrical Engineering	University of Massachusetts, Amherst, MA	MATH 697P Mathematical Methods For Science And Engineering I	Mathematics	Summer 1991	Mathematical Physics, E.Butkov, Addison Wesley	Donald F St. Mary

### 3.11 University of Massachusetts, Lowell, MA (1)

No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	University of Massachusetts, Lowell, MA	MATH 92.306 Real Analysis II	Mathematics	Summer 1992	Introduction to real analysis, By Barbence. And advanced calculus by Buck	James Graham-Eagle

### 3.12 Boston University, Boston, MA (1)

No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	Boston University, Boston, MA	CSE 635 Local Area Networks: Design and Implementation	Computer Science	Fall 1990	Local Networks, Second Edition, by Stalling,William	Mikhail Orlov

### 3.13 University Of Washington, Seattle, WA (1)

No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	University Of Washington, Seattle, WA	CSE 524 Parallel Algorithms	Computer Science	March 1990		Richard Anderson

### 3.14 University Of California, Santa Barbara, CA (1)

No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	University Of California, Santa Barbara	CSE 274 Advanced Topics in Data Base	Computer Science	March 1989	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley	Divyakant Agrawal

### 3.15 Oakland University, Michigan (9)

No.	degree	university	course name	department	date	text book	instructor
9	MS Computer Science	Oakland University, Michigan	CSE 565 Compiler Construction	Computer Science	Fall 1988	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley	Ronald J. Srodawa
8	MS Computer Science	Oakland University, Michigan	CSE 535 Programming languages design	Computer Science	Fall 1988	Programming Languages: Design and Implementation, Terrence W. Pratt, Marvin V. Zelkowitz	Ronald J. Srodawa
7	MS Computer Science	Oakland University, Michigan	CSE 550 Operating Systems	Computer Science	March 1988	Milenkovic, Operating Systems, McGraw Hillz	David E. Boddy
6	MS Computer Science	Oakland University, Michigan	CSE 542 Algorithms	Computer Science	March 1988	Data structures and Algorithms. by Aho,Hopcraft and Ullman	James H. McKay
5	MS Computer Science	Oakland University, Michigan	CSE 502 Hardware Logic design	Computer Science	January 1988	Motorola MC6800 Microprocessor family assembly language, Interface design and system design	Subramaniam Ganesan
4	MS Computer Science	Oakland University, Michigan	CSE 504 Discrete structures and Foundation of computer science	Computer Science	January 1988	A.Doerr, K.Levasseur. by Applied Discrete Structures for computer science, SRA 1985	Thomas G. Windeknecht
3	MS Computer Science	Oakland University, Michigan	CSE 538 Programming methodology	Computer Science	Fall 1987	Systematic Software development using VDM. by C.B.Jones	Janusz Laski
2	MS Computer Science	Oakland University, Michigan	APM 563 Discrete methods	Mathematics	Fall 1987	Albert Tucker, Applied Combinatorals	
1	MS Computer Science	Oakland University, Michigan	CSE 516 Artificial Intelligence	Computer Science	Summer 1987	AI by Patrick Henry Winston	

### 3.16 Wayne State University, Detroit, Michigan (2)

No.	degree	university	course name	department	date	text book	instructor
2	Non-degree	Wayne State University, Detroit, Michigan	CSE 531 Computer Organization	Electrical Engineering	March 1987	Computer Design and Architecture by Sajjan G. Shirva	Aridam Guptaray
1	Non-degree	Wayne State University, Detroit, Michigan	CSE 562 Mini-Micro Computers	Electrical Engineering	March 1987	J.f.Wakerly micro-computer Architecture and Programming, John Wiley	Harpreet Singh

### 3.17 University of Southern California (USC), Los Angeles, CA (9)

No.	degree	university	course name	department	date	text book	instructor
-----	--------	------------	-------------	------------	------	-----------	------------

9	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 512b Special Topics in Hydrology	Civil Engineering	Summer 1983		
8	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 561 construction planning and scheduling	Civil Engineering	Spring 1983		
7	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 599 special topics	Civil Engineering	Spring 1983		
6	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 572 Construction labor management	Civil Engineering	Spring 1983		
5	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 506 Heavy Construction Estimating	Civil Engineering	Spring 1983		
4	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 462 Construction methods and Equipment	Civil Engineering	Fall 1982		
3	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 501 Functions of the constructor	Civil Engineering	Fall 1982		
2	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 508 Mechanics of Solids II	Civil Engineering	Summer 1982		
1	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 525b Engineering Analysis	Civil Engineering	Summer 1982		

### 3.18 Liverpool University, England (20)

No.	degree	university	course name	department	date	text book	instructor
20	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Principles of building construction II	Civil Engineering	1980		
19	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Industrial engineering II	Civil Engineering	1980		
18	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced theory/Design of structures	Civil Engineering	1980		



17	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Structural concrete and steel	Civil Engineering	1980		
16	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced soil mechanics	Civil Engineering	1980		
15	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Group design project	Civil Engineering	1980		
14	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Advanced Mathematics	Civil Engineering	1979		
13	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Numerical methods and Statistics	Civil Engineering	1979		
12	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building construction I	Civil Engineering	1979		
11	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building services I	Civil Engineering	1979		
10	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Industrial Engineering I	Civil Engineering	1979		
9	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. FORTRAN programming	Civil Engineering	1979		
8	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Theory and design of structures	Civil Engineering	1979		
7	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Structural concrete	Civil Engineering	1979		
6	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Soil mechanics	Civil Engineering	1979		
5	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
4	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
3	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Principles of mechanical Engineering	Civil Engineering	1978		
2	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Construction materials	Civil Engineering	1978		

1	B.Eng Civil/Build- ing Engi- neering	Liverpool University, England	1st year. Graphics communication/De- sign	Civil En- gineering	1978		
---	---	-------------------------------------	---	------------------------	------	--	--

### 3.19 Stockton Billingham technical College, England (5)

No.	degree	university	course name	depart- ment	date	text book	instructor
5	GCE A- level	Stockton Billingham technical Col- lege, England	Physics	Physics	1977		
4	GCE A- level	Stockton Billingham technical Col- lege, England	Mathematics, Uni- versity of London Board	Mathe- matics	1977		
3	GCE A- level	Stockton Billingham technical Col- lege, England	Further Mathemat- ics University of London Board	Mathe- matics	1977		
2	GCE A- level	Stockton Billingham technical Col- lege, England	Pure Mathematics Associated examina- tion Board	Mathe- matics	1977		
1	GCE A- level	Stockton Billingham technical Col- lege, England	Applied Mathemat- ics Associated ex- amination Board	Mathe- matics	1977		

## 4 Official courses sorted by Department

### 4.1 Engineering Mechanics (6)

No.	degree	university	course name	depart- ment	date	text book	instructor
6	Non-degree	University Of Wisconsin, Madison	EMA 471 Inter- mediate Problem Solving for Engi- neers  meeting: TuTh 8:00AM - 9:15AM ENGR HALL 2261  finals: 05/12/2016 7:45AM 9:45AM	Engi- neering Mechan- ics	Spring 2016	Class notes	Robert J. Witt
5	MS En- gineering Mechanics	University Of Wisconsin, Madison	EMA 550 astrody- namics  meeting: TuTh 2:30PM - 3:45PM ENGR HALL 2265  finals: 05/15/2014 12:25PM 2:25PM	Engi- neering Mechan- ics	Spring 2014	class notes	Suzannah Sandrik

4	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 523 flight dynamics and control  meeting: Tue, Thu, 11:00AM - 12:00PM  finals: Tu,Th 9:30AM - 10:45AM ENGR HALL 1209	Engineering Mechanics	Spring 2014	Dynamics of flight, stability and control, 3rd ed Wiley, Etkin B. and Reid L.D. 1996	Riccardo Bonazza
3	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 542 Advanced Dynamics  meeting: M W F 9:55AM - 10:45AM ENGR HALL 2255  finals: 12/19/2013 12:25PM 2:25PM	Engineering Mechanics	Fall 2013	Engineering Dynamics by Ginsberg Class notes	Daniel C. Kammer
2	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 547 Engineering analysis 1  meeting: M W F 11:00AM - 11:50AM ENGR HALL 2305  finals: 12/20/2013 10:05AM 12:05PM	Engineering Mechanics	Fall 2013	Advanced Engineering Mathematics, Peter V. O'Neil 6th ed	Douglass L. Henderson
1	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 545 Engineering Vibration	Engineering Mechanics	Spring 2013	Mechanical and Structural Vibration by Ginsberg	Matt Allen

## 4.2 Electrical Engineering (28)

No.	degree	university	course name	department	date	text book	instructor
28	Non-degree	University Of Wisconsin, Madison	ECE 719, Optimal systems  meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418  finals: May 5 2016, 9:30 AM	Electrical Engineering	Spring 2016	Class notes	B. R. Barmish
27	Non-degree	University Of Wisconsin, Madison	ECE 332, feedback control  meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418  finals: 12/10/2015, 9:30 AM	Electrical Engineering	Fall 2015	Class notes	B. R. Barmish
26	Non-degree	University Of Wisconsin, Madison	ECE/ME 739, Introduction to Robotics	Electrical Engineering	Spring 2015	Robot Modeling and Control, by Spong, Hutchinson, and Vidyasagar ISBN ISBN 0-471-64990-2	Michael Zinn

25	MS Engineering Mechanics	University Of Wisconsin, Madison	ECE 717 Linear systems  meeting: TuTh 2:30PM - 3:45PM ENG HALL 3444  finals: 12/18/2014 10:05AM	Electrical Engineering	Fall 2014	Linear System Theory (second edition) ISBN 0134412052 by W.J. Rugh	B. R. Barmish
24	Non-degree	Cal Poly Pomona, California	ECE 405 Communication systems	Electrical Engineering	Summer session I 2010	Modern digital and analog communication systems by Lathi	James Kang
23	Non-degree	California state University Fullerton	EGEE 420 Digital filters	Electrical Engineering	Spring 2010	DIGITAL SIGNAL PROCESSING by OPPENHEIM	Mostafa Shiva
22	Non-degree	California state University Fullerton	EGEE 409 Linear systems and signals	Electrical Engineering	Spring 2010	Signals and linear systems by Gabel and Roberts, 3rd ed	Mohinder S. Grewal
21	MS Applied Mathematics	California state University Fullerton	EGEE 518 Digital Signal Processing I	Electrical Engineering	Fall 2008	DIGITAL SIGNAL PROCESSING by OPPENHEIM	Mostafa Shiva
20	MS Applied Mathematics	California state University Fullerton	EGEE 443 Electronic Communication Systems	Electrical Engineering	Fall 2008	INTRODUCTION TO ANALOG and DIGITAL COMMUNICATIONS By HAYKIN	Karim Hamidian
19	Non-degree	University Of California, Irvine	EECS 207A Advanced Image processing	Electrical Engineering	Fall 2004	Algorithms for Image Processing and computer vision, J.R.Parker	Joerg Meyer
18	Non-degree	University Of California, Irvine	EECS 152A Digital Signal processing	Electrical Engineering	Fall 2004	DSP by Proakis and Manolakis, 3rd edition	Glenn Healey
17	Non-degree	University Of California, Irvine	EECS 203A Digital Image processing	Electrical Engineering	Fall 2004	Digital image processing, 2nd edition by Gonzales and Woods	Glenn Healey
16	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3311 Software engineering 1	Electrical Engineering	Fall 1993		David R. Kaeli
15	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3341 Probability and stochastic processes	Electrical Engineering	Fall 1993		Vinay K. Ingle
14	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3325 Numerical software development methods	Electrical Engineering	March 1993	Numerical software, by Dr Nash. 1989	Wilfred J. Remillard
13	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3386 Characteristics and models of solid state devices I-B	Electrical Engineering	January 1993	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985	Nagappan K. Annamalai
12	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3342 Electromagnetic theory I-A	Electrical Engineering	Fall 1992	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington	Charles J. Drane
11	MS Electrical Engineering	University of Massachusetts, Amherst, MA	ECE 580 Feedback control systems	Electrical Engineering	Summer 1992	Modern Control Engineering, by K. Ogata, 2nd edition, Prentice Hall, 1990	Wei-Bo Gong
10	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3371 Linear Optimal Control Theory I	Electrical Engineering	March 1992	Linear Optimal Control Systems. by Kwakwenaak and Sivan	Gilead Tadmor

9	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3321 Digital Signal Processing	Electrical Engineering	March 1992	Digital Signal Processing by Proakis, Macmillan and Manolakis	Ram Raghavan
8	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3221 Linear Systems Analysis	Electrical Engineering	January 1992	Computer Aided Analysis and Design of Linear control systems. B. Shafi. Prentice Hall	Bahram Shafai
7	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3211 Mathematical Methods in EE I	Electrical Engineering	Fall 1991	Engineering Analysis , Vector Space approach by Robert J. Schilling , Hua Lee. Finite Dimensional Vector Space, by R.Halmos	Gilead Tadmor
6	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3100 Introduction to circuits and Systems I	Electrical Engineering	Fall 1991	Linear Circuits Analysis by S. Madhu	William J. Bintz
5	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3102 Introduction to Electromagnetic Field Theory I	Electrical Engineering	March 1991	Field And Wave Electromagnetics, by David K. Cheng	Charles J. Drane
4	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3101 Micro-Electronics I	Electrical Engineering	January 1991	Microelectronics by Jacob Millman, Arvin Grabelg	Bill Bintz
3	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3108 Signals and Systems	Electrical Engineering	January 1991	Signals And Systems By Alan V. Oppenheim, Alan S. Willsky	Lisa Shatz
2	Non-degree	Wayne State University, Detroit, Michigan	CSE 531 Computer Organization	Electrical Engineering	March 1987	Computer Design and Architecture by Sajjan G. Shirva	Aridam Guptaray
1	Non-degree	Wayne State University, Detroit, Michigan	CSE 562 Mini-Micro Computers	Electrical Engineering	March 1987	J.f.Wakerly micro-computer Architecture and Programming, John Wiley	Harpreet Singh

### 4.3 Mechanical Engineering (18)

No.	degree	university	course name	department	date	text book	instructor
18	Non-degree	University Of Wisconsin, Madison	ME 240 Dynamics meeting: TuTh 1:20PM - 2:10PM ENGR HALL 1800 discussion: WeFr 9:55AM - 10:45AM, Wang,Shu 2108 MECH finals: 12/18/2017 10:05AM 12:05PM	Mechanical Engineering	Fall 2017	Dynamics ISBN 9780077891145 by Gray, Costanzo, Plesha MCGRAW HILL, second edition	Sonny Aaron Nimityongskul

17	Non-degree	University Of Wisconsin, Madison	ME 440 Intermediate Vibrations  meeting: TuTh 11:00AM - 12:15PM MECH ENGR 2108  discussion: N/A  finals: 12/16/2017 2:45PM 4:45PM	Mechanical Engineering	Fall 2017	S. S. Rao Mechanical vibration 4th edition	Andrew Mikkelson
16	Non-degree	University of California, Davis	EME 121 Engineering applications of dynamics	Mechanical Engineering	Spring 2011	Engineering applications of dynamics by Karnopp and Margolis	Donald Margolis
15	Non-degree	California State University Fullerton	EGME 511 Advanced Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition	Sang June Oh
14	Non-degree	California State University Fullerton	EGME 431 Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition	Sang June Oh
13	MS Mechanical Engineering	University Of California, Irvine	MAE 299 research 1 unit	Mechanical Engineering	Spring 2006		A. Sideris
12	MS Mechanical Engineering	University Of California, Irvine	MAE 207 Computational methods	Mechanical Engineering	Spring 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N. Atluri	S. N. Atluri
11	MS Mechanical Engineering	University Of California, Irvine	MAE 244 Theoretical Kinematics	Mechanical Engineering	Spring 2006	Introduction to theoretical kinematics, by J.M.McCarthy	J.M. McCarthy
10	MS Mechanical Engineering	University Of California, Irvine	MAE 295 Solid mechanics	Mechanical Engineering	Winter 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N.Atluri	S.N. Atluri
9	MS Mechanical Engineering	University Of California, Irvine	MAE 200B Engineering Analysis II	Mechanical Engineering	Winter 2006	Instructor notes	Feng Liu
8	MS Mechanical Engineering	University Of California, Irvine	MAE 270A Linear Systems 1	Mechanical Engineering	Fall 2005	Instructor notes	A. Sideris
7	MS Mechanical Engineering	University Of California, Irvine	MAE 200A Engineering Analysis 1	Mechanical Engineering	Fall 2005	Instructor notes	K.D. Mease
6	MS Mechanical Engineering	University Of California, Irvine	MAE 171 Digital Control	Mechanical Engineering	Spring 2005	Digital Control System Analysis and Design. 3rd edition. By Charles Phillips and H. Troy Nagle	A. Sideris
5	MS Mechanical Engineering	University Of California, Irvine	MAE 170 Introduction to control systems	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition	James Bobrow
4	MS Mechanical Engineering	University Of California, Irvine	MAE 106 Mechanical Systems Lab	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition	David J. Reinkensmeyer

3	Non-degree	University Of California, Irvine	MAE 91 Introduction To Thermodynamics	Mechanical Engineering	Summer 2004	FUNDAMENTALS THERMODYNAMICS by SONNTAG	Hong Zhou
2	Non-degree	University Of California, Irvine	MAE 185 Applied Numerical Analysis	Mechanical Engineering	Spring 2003	Applied Numerical Analysis, C.F. Gerald and P.O. Wheatley, 5th Edition	Maqsood Chaudhry
1	Non-degree	University Of California, Irvine	MAE 146 Astronautics	Mechanical Engineering	Spring 2003	Fundamentals of Astrodynamics, R.R. Bate, D.D. Mueller, J.E. White, Dover	Melissa Orme

#### 4.4 Mathematics (25)

No.	degree	university	course name	department	date	text book	instructor
25	Non-degree	University Of Wisconsin, Milwaukee	Math 322 Introduction to Partial differential equations  meeting: TuTh 2:00PM - 3:15PM EMS E160  discussion: N/A  finals: May 2018	Mathematics	Spring 2018	Elementary Differential Equations and Boundary Value Problems, 10th Edition. William E. Boyce, 200e Richard C. DiPrima	Hans Volkmer
24	Non-degree	University Of Wisconsin, Madison	Math 320 Linear algebra and differential equations  meeting: TuTh 9:30AM - 10:45AM VAN VLECK B239  discussion: Mo 8:50AM - 9:40AM VAN VLECK B115  finals: 05/07/2017 7:25PM 9:25PM	Mathematics	Fall 2016	Differential Equations and Linear Algebra by Edwards and Penney	Leslie Smith
23	Non-degree	University Of Wisconsin, Madison	Math 322 Applied Mathematical Analysis  meeting: MWF, 12:05-12:55 Van Hise 115  discussion: N/A  finals: Sat dec 17, 5:05 PM to 7:05 PM.	Mathematics	Fall 2016	Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5th ed. Richard Haberman	Leslie Smith

22	Non-degree	University Of Wisconsin, Madison	Math 319: Techniques in Ordinary Differential Equations  meeting: MoWeFr 2:25PM - 3:15PM, VAN VLECK B239  finals: Dec 22, 2016 12:25 PM-2:25 PM	Mathematics	Fall 2016	Elementary Differential Equations, 9th ed by William E. Boyce, Richard C. DiPrima	Minh-Binh Tran
21	MS Engineering Mechanics	University Of Wisconsin, Madison	Math 703 methods of applied mathematics I  meeting: Mu,Thu 11:00AM - 12:15PM VAN VLECK B139	Mathematics	Fall 2014	Introduction to Applied Mathematics, ISBN 0961408804 by Gilbert Strang	Gheorghe Craciun
20	Non-degree	University of California, Davis	Math 228B Numerical Solution of Differential Equations	Mathematics	Winter 2011	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque	Robert Guy
19	Non-degree	University of California, Davis	Math 228A Numerical Solution of Differential Equations	Mathematics	Fall 2010	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque	Robert Guy
18	MS Applied Mathematics	California state University Fullerton	Math 597 B Finals Research	Applied Mathematics	Summer 2008		Angel R. Pineda
17	MS Applied Mathematics	California state University Fullerton	Math 597 A Finals Research	Applied Mathematics	Summer 2008		W. B. Gearhart
16	MS Applied Mathematics	California state University Fullerton	Math 504 Simulation Modeling and Analysis	Applied Mathematics	Spring 2008	Lecture notes by Dr Gearhart. Reference book: Introduction to probability models by Sheldon Ross	W. B. Gearhart
15	MS Applied Mathematics	California state University Fullerton	Math 502 Probability and Statistics	Applied Mathematics	Fall 2007	Mathematical statistics and data analysis 3rd edition. By John Rice	Mori Jamshidian
14	MS Applied Mathematics	California state University Fullerton	Math 503 Mathematical Modeling	Applied Mathematics	Summer 2007	Applied Mathematics 3rd edition by David Logan	W. B. Gearhart
13	MS Applied Mathematics	California state University Fullerton	Math 499 independent studies	Applied Mathematics	Spring 2007	Applied Mathematics 3rd edition by David Logan	Angel R. Pineda
12	MS Applied Mathematics	California state University Fullerton	Math 501 Numerical Analysis and computation	Applied Mathematics	Spring 2007	Numerical Analysis 3rd edition. by David R. Kincaid, E. Ward Cheney	C. H. Lee
11	MS Applied Mathematics	California state University Fullerton	Math 307 Linear Algebra	Applied Mathematics	Spring 2007	Linear Algebra and its Applications 4th edition. By Gilbert Strang	Angel R. Pineda
10	Non-degree	University Of California, Berkeley	MATH 121B Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition	Richard E. Borcherds



9	Non-degree	University Of California, Berkeley	MATH 121A Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition	Fraydoun Reza-khanlou
8	Non-degree	University Of California, Berkeley	Math 127 Mathematical and Computational Methods in Molecular Biology	Mathematics	Fall 2002	Biological sequence analysis: probabilistic models of proteins and nucleic acids By Richard Durbin	Lior Pachter
7	Non-degree	University of Massachusetts, Lowell, MA	MATH 92.306 Real Analysis II	Mathematics	Summer 1992	Introduction to real analysis, By Barbence. And advanced calculus by Buck	James Graham-Eagle
6	MS Electrical Engineering	University of Massachusetts, Amherst, MA	MATH 697P Mathematical Methods For Science And Engineering I	Mathematics	Summer 1991	Mathematical Physics, E.Butkov, Addison Wesley	Donald F St. Mary
5	MS Computer Science	Oakland University, Michigan	APM 563 Discrete methods	Mathematics	Fall 1987	Albert Tucker, Applied Combinatorals	
4	GCE A-level	Stockton Billingham technical College, England	Mathematics, University of London Board	Mathematics	1977		
3	GCE A-level	Stockton Billingham technical College, England	Further Mathematics University of London Board	Mathematics	1977		
2	GCE A-level	Stockton Billingham technical College, England	Pure Mathematics Associated examination Board	Mathematics	1977		
1	GCE A-level	Stockton Billingham technical College, England	Applied Mathematics Associated examination Board	Mathematics	1977		

#### 4.5 Computer Science (11)

No.	degree	university	course name	department	date	text book	instructor
11	Non-degree	Boston University, Boston, MA	CSE 635 Local Area Networks: Design and Implementation	Computer Science	Fall 1990	Local Networks, Second Edition, by Stalling,William	Mikhail Orlov
10	Non-degree	University Of Washington, Seattle, WA	CSE 524 Parallel Algorithms	Computer Science	March 1990		Richard Anderson
9	Non-degree	University Of California, Santa Barbara	CSE 274 Advanced Topics in Data Base	Computer Science	March 1989	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley	Divyakant Agrawal
8	MS Computer Science	Oakland University, Michigan	CSE 565 Compiler Construction	Computer Science	Fall 1988	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley	Ronald J. Srodawa

7	MS Computer Science	Oakland University, Michigan	CSE 535 Programming languages design	Computer Science	Fall 1988	Programming Languages: Design and Implementation, Terrence W. Pratt, Marvin V. Zelkowitz	Ronald J. Srodawa
6	MS Computer Science	Oakland University, Michigan	CSE 550 Operating Systems	Computer Science	March 1988	Milenkovic, Operating Systems, McGraw Hillz	David E. Boddy
5	MS Computer Science	Oakland University, Michigan	CSE 542 Algorithms	Computer Science	March 1988	Data structures and Algorithms. by Aho,Hopcraft and Ullman	James H. McKay
4	MS Computer Science	Oakland University, Michigan	CSE 502 Hardware Logic design	Computer Science	January 1988	Motorola MC6800 Microprocessor family assembly language, Interface design and system design	Subramaniam Ganesan
3	MS Computer Science	Oakland University, Michigan	CSE 504 Discrete structures and Foundation of computer science	Computer Science	January 1988	A.Doerr, K.Levasseur. by Applied Discrete Structures for computer science, SRA 1985	Thomas G. Windeknecht
2	MS Computer Science	Oakland University, Michigan	CSE 538 Programming methodology	Computer Science	Fall 1987	Systematic Software development using VDM. by C.B.Jones	Janusz Laski
1	MS Computer Science	Oakland University, Michigan	CSE 516 Artificial Intelligence	Computer Science	Summer 1987	AI by Patrick Henry Winston	

## 4.6 Physics (7)

No.	degree	university	course name	department	date	text book	instructor
7	Non-degree	University Of Wisconsin, Madison	Physics 311 (Mechanics)  meeting: MWF 11:00AM - 11:50AM, VAN HISE 494  discussion: Th 1:20PM - 2:10PM CHAMBERLIN 2108  finals: 12/17/2015 5:05PM	Physics	Fall 2015	S.T. Thornton, J.B. Marion, Classical Dynamics of Particles and Systems, 5th Edition, Brooks/Cole, 2004, ISBN 0534408966	Stefan Westerhoff
6	MS Mechanical Engineering	University Of California, Irvine	PHY 100 Computational Methods in Physics	Physics	Fall 2006	Instructor own Mathematica Handbook	Peter Taborek
5	Non-degree	University Of California, Irvine	Physics 7LD Classical Physics 7D Lab	Physics	Summer 2003	Lab notes	Roger D. McWilliams
4	Non-degree	University Of California, Irvine	Physics 7D Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner	Roger D. McWilliams
3	Non-degree	University Of California, Irvine	Physics 7E Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner	Roger D. McWilliams

2	Non-degree	California State University, San Jose	Physics 240 Computational Physics	Physics	Fall 2002	BNumerical Methods for Physics, 2nd Edition. A.L.Garcia	Alejandro Garcia
1	GCE A-level	Stockton Billingham technical College, England	Physics	Physics	1977		

#### 4.7 Engineering Physics (1)

No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	University Of Wisconsin, Madison	EP 548 Engineering Analysis II  meeting: TuTh 11:00AM - 12:15PM VAN VLECK B341  discussion: N/A  finals: 05/11/2017 10:05AM 12:05PM	Engineering Physics	Fall 2017	Advanced Mathematical Methods for Scientists and Engineers I, Bender and Orszag. Applied Partial Differential Equations, Haberman	Leslie Smith

#### 4.8 Civil Engineering (31)

No.	degree	university	course name	department	date	text book	instructor
31	MS Engineering Mechanics	University Of Wisconsin, Madison	CEE 744 Structural Dynamics and Earthquake Engineering	Civil Engineering	Spring 2013	Dynamics of Structures, Anil K. Chopra, Prentice-Hall	Michael Oliva
30	MS Mechanical Engineering	University Of California, Irvine	CE 247 Structural Dynamics	Civil Engineering	Fall 2006	Structural Dynamics. 5th edition. Mario PAZ	Maria Q. Feng
29	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 512b Special Topics in Hydrology	Civil Engineering	Summer 1983		
28	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 561 construction planning and scheduling	Civil Engineering	Spring 1983		
27	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 599 special topics	Civil Engineering	Spring 1983		
26	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 572 Construction labor management	Civil Engineering	Spring 1983		
25	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 506 Heavy Construction Estimating	Civil Engineering	Spring 1983		

24	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 462 Construction methods and Equipment	Civil Engineering	Fall 1982		
23	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 501 Functions of the constructor	Civil Engineering	Fall 1982		
22	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 508 Mechanics of Solids II	Civil Engineering	Summer 1982		
21	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 525b Engineering Analysis	Civil Engineering	Summer 1982		
20	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Principles of building construction II	Civil Engineering	1980		
19	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Industrial engineering II	Civil Engineering	1980		
18	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced theory/Design of structures	Civil Engineering	1980		
17	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Structural concrete and steel	Civil Engineering	1980		
16	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced soil mechanics	Civil Engineering	1980		
15	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Group design project	Civil Engineering	1980		
14	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Advanced Mathematics	Civil Engineering	1979		
13	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Numerical methods and Statistics	Civil Engineering	1979		
12	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building construction I	Civil Engineering	1979		
11	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building services I	Civil Engineering	1979		
10	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Industrial Engineering I	Civil Engineering	1979		

9	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. FORTRAN programming	Civil Engineering	1979		
8	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Theory and design of structures	Civil Engineering	1979		
7	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Structural concrete	Civil Engineering	1979		
6	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Soil mechanics	Civil Engineering	1979		
5	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
4	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
3	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Principles of mechanical Engineering	Civil Engineering	1978		
2	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Construction materials	Civil Engineering	1978		
1	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Graphics communication/Design	Civil Engineering	1978		

## 5 Partial list of non-credit courses, audit courses, misc. lectures and notes

No.	university	course name	department	date	text book	instructor
3	University Of Wisconsin, Madison	ME 573 computational fluid (CFD)	Mechanical Engineering	summer 2015	Computational techniques for fluid dynamics / C.A.J. Fletcher	Chris Rutland
2	University Of Wisconsin, Madison	Math 513 Numerical Linear Algebra	Mathematics	spring 2013	Numerical Linear Algebra, L.N. Trefethen and D. Bau, SIAM, 1997. ISBN: 0898713617	Ron Amos
1	University Of Wisconsin, Madison	EMA 605 Finite element methods	Engineering Mechanics	Fall 2009	Concepts and Applications of Finite Element Analysis, 4th Edition ISBN-10: 0471356050	Michael E. Plesha

## 6 TA Courses

No.	university	course name	department	date
3	University Of California, Irvine	MAE 206 Optimization (Grader only)	Mechanical Engineering	Spring 2006

2	University Of California, Irvine	MAE 185 Applied Numerical Analysis (TA and Grader)	Mechanical Engineering	Spring 2006
1	University Of California, Irvine	MAE 80 Dynamics (TA and Grader)	Mechanical Engineering	Summer 2006