

Record of Courses Taken in Preparation for Ph.D. Study

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09/1998-06/2000, Master of Science, Dept. of Computer Science and Information Engineering (CSIE), National Taiwan University (NTU). **GPA: 4.0, Rank: 1/54.**

10/1994-06/1998, Bachelor of Science in Engineering, Dept. of CSIE, NTU. **GPA: 3.9, Rank: 1/45.**

Subject name	Principal textbook used	Academic Year	Total # of weeks	Hour per week	official grade
Operations Research	Case studies.	99-00	16	3	100
Automatic Reasoning	C.-L. Chang and Richard C. -T. Lee, Symbolic Logic and Mechanical Theorem Proving, Academic Press Inc.	98-99	16	3	90
Pattern Analysis and Classification	Robert J. Schalkoff, Pattern Recognition: Statistical, Structural and Neural Approaches, John Wiley & So n.	98-99	16	3	98
Pictorial Information System Design	Recent research papers.	98-99	16	3	96
Network Data Security	William Stallings, Cryptography and Network Security: Principles and Practice 2 nd Ed., Prentice Hall.	98-99	16	3	95
Digital Library	Recent research papers.	98-99	16	3	92
Artificial Intelligence	S. Russell and P. Norvig, Artificial Intelligence: A Modern Approach, Prentice Hall.	97-98	16	3	99
Information Theory and Coding Techniques	Papers and the specifications of JPEG and MPEG.	97-98	16	3	93
Theory					
Design Strategies for Computer Algorithms	Recent research papers.	99-00	16	3	95
Computer Theory	Christos H. Papadimitriou, Computational Complexity, Addison Wesley.	98-99	16	3	100
Queueing Theory	Leonard Kleinrock, Queueing Systems, John Wiley & Son.	97-98	16	3	91
Graph Theory with Applications	Recent research papers.	96-97	16	3	93
Analysis of Algorithm	Recent research papers.	96-97	16	3	98
Formal Language and Automata Theory	John E. Hopcroft and Jeffrey D. Ullman, Introduction to Automata Theory, Languages, and Computation, Addison-Wesley.	96-97	16	3	95
Introduction to Algorithms	Robert Sedgewick, Algorithms in C++, Addison-Wesley.	95-96	16	3	84
Data Structure	Ellis Horowitz, Sartaj Sahni, Susan Anderson-Freed, Fundamentals of Data Structures in C, Computer Science Press.	95-96	16	3	87
System					
Computer Networks	Andrew S. Tanenbaum, Computer Networks 3 rd Ed., Prentice Hall.	97-98	16	3	95
Compiler Design	Charles N. Fischer and Richard J. LeBlanc, Jr., Crafting a Compiler with C, The Benjamin/Cummings Publishing Company, Inc.	97-98	16	3	98
Operating System Design	Recent research papers.	96-97	16	3	98
Computer Architecture	David A. Patterson, John L. Hennessy, Computer Architecture: A Quantitative Approach, Morgan Kaufmann.	96-97	16	3	94
Operating Systems	Abraham Silberschatz, Peter B. Galvin, Operating System Concepts, 4 th Ed., Addison-Wesley.	96-97	16	3	96
Programming Language Structures	Ravi Sethi, Programming Languages: Concepts and Constructs, 2 nd Ed., Addison-Wesley.	96-97	16	3	92
Design of Information System	Case studies.	96-97	16	3	84
System Programming	Leland L. Beck, System Software: an Introduction to System Programming 2 nd Ed., Addison-Wesley.	95-96	16	3	96

Computer Organization and Assembly Languages	William B. Giles, Assembly Language Programming: For The Intel 80XXX Family, Macmillan	95-96	16	3	99
Mathematics					
Numerical Methods	Curtis F. Gerald, Patrick O. Wheatley, Applied Numerical Analysis 5 th Ed., Addison-Wesley.	96-97	16	3	99
Discrete Mathematics	Ralph P. Grimaldi, Discrete and Combinatorial Mathematics: An Applied Introduction, Addison-Wesley.	95-96	16	3	85
Probability	Alvin W. Drake, Fundamentals of Applied Probability Theory, McGraw-Hill.	95-96	16	3	95
Engineering Mathematics (I)	Peter V. O'Neil, Advanced Engineering Mathematics 4 th Ed., PWS.	95-96	16	3	94
Engineering Mathematics (II)	Stephen H. Friedberg, Arnold J. Insel and Lawrence E. Spence, Linear Algebra 2 nd Ed., Prentice-Hall.	95-96	16	3	91
Hardware					
Microcomputer Systems	Lab handbooks.	96-97	16	3	97
Microcomputer Laboratory	Lab handbooks.	96-97	16	2	96
Logic Design and Theory	Randy H. Katz, Contemporary Logic Design, Benjamin/Cummings.	96-97	16	3	91
Electric Circuits and Electronics	Robert L. Boylestad, Electronic Devices and Circuit Theory 5 th Ed., Prentice-Hall.	95-96	16	3	95
Digital electronics	Leon O. Chua, Charles A. Desoer, and Ernest S. Kuh, Linear and Nonlinear Circuits, McGraw-Hill.	95-96	16	3	93
Others					
Logic	A textbook published in Chinese.	95-96	16	3	95
General Physics (I)	Harris Benson, University Physics, John Wiley & Sons.	94-95	16	3	98
General Physics (II)	Harris Benson, University Physics, John Wiley & Sons.	94-95	16	3	97

Grading System: 100 is the perfect score, 80 or higher = A, 70 to 79 = B, 60 to 69 = C, 50 to 59 = D, Less than 50 = E. (According to the Office of Academic Affairs, National Taiwan University, Taipei, Taiwan)