

Course #	Course Name	Textbook name	Publisher	ISBN	备注
ENGCMP 0200 (HUR)	Seminar in Composition	A Writer's Reference. 9th ed. Diana Hacker, Nancy Sommers, 2017.11.24	Bedford St. Martin's	978-1319153823	
ENGCMP 0200	Seminar in Composition	A Writer's Reference. 9th ed. Diana Hacker, Nancy Sommers, 2017.11.24	Bedford St. Martin's	978-1319153823	
ECON 100	Micro Economics	no textbook required			
MATH 0240	Analytic Geometry and Calculus 3	Essential Calculus, 2nd ed, International Metric Edition, James Stewart, 2012.3.2	Cengage	978-1-133-49256-6	
MATH 0290	Differential Equations	Differential Equations with Boundary Value Problems, 2nd ed, Polking, Boggess and Arnold	Pearson	978-1-292-03915-2	
MATH 0230	Analytic Geometry and Calculus 2	Essential Calculus, 2nd ed, International Metric Edition, James Stewart, 2012.3.2	Cengage	978-1-133-49256-6	
MATH 0220	Analytic Geometry and Calculus 1	Essential Calculus, 2nd ed, International Metric Edition, James Stewart, 2012.3.2	Cengage	978-1-133-49256-6	
CS 0441	Discrete Structures for CS	Discrete Math and Its Applications, 7th edition, Kenneth H. Rosen	McGraw-Hill	978-0-07-338309-5	
INFSCI 0310	Computation in Information Science	1. Computational thinking for the Modern Problem Solver, David D. Riley and Kenya. Hunt 2. Introduction to Computational Science 2nd edition, Angela B. Shiflet and George W. Shiflet; 3. Introduction to Probabilistic and Statistical Methods with Examples in R, Katarzyna Stanow			
MATH 0280	Matrices and Linear Algebra	Linear Algebra: A Modern Introduction, 4th ed, David Poole	Cengage	978-1-285-46324-7	
CHEM0960	General Chemistry for Engineers 1	Chemistry: Atoms First, 4th ed, International edition, Julia Burdge & Jason Overby	McGraw-Hill	9781260571349	
ECE 0101	Linear Circuits & Systems + Lab	The Analysis and Design of Linear Circuits, 8th Edition, Roland E. Thomas, Albert J. Rosa, and Gregory J Toussaint, 2016	Wiley	978-1-119-23538-5	
PHYS 0174	Physics for Science and Engineering 1	Principle of Physics, David Halliday, Robert Resnick, Jearl Walker, 10th ed. 2015.10.15	Wiley	978-1-118-23074-9	
PHYS 0175	Physics for Science and Engineering 2	Principle of Physics, David Halliday, Robert Resnick, Jearl Walker, 10th ed. 2015.10.15	Wiley	978-1-118-23074-9	
ME 0071	Introduction to Fluid Mechanics	Fox and McDonald's Introduction to Fluid Mechanics, 9th Ed, Pritchard. International Student Version, SI version	Wiley	9781119603764	
MEMS 1052	Heat and Mass Transfer	Principles of Heat and Mass Transfer, 1st ed, Global Edition, SI version. Incropera	Wiley	978-1-119-38291-1	
	Technical Elective: Thermo System Design	no textbook required			
	Technical Elective: Thermal Analysis of Electronic Systems	no textbook required			
ENGR 0135	Statics 1	Statics and Mechanics of Materials: An Integrated Approach. 2nd ed.W. F. Riley, L. D. Sturges, and D. H. Morris	Wiley	978-0-471-43446-7	
MEMS 0031	Electrical Circuits	Introduction to Electrical Circuits, 9th Ed. Svoboda and Dorf, 2014 (国际学生版)	Wiley	978-1-119-54657-3	
ME 1015	Rigid Body Dynamics	Engineering Mechanics: Dynamics, SI Version, 9th Ed, Global Ed, J.L. Meriam and L.G. Kraige	Wiley	978-1119390985	
MEMS 0024	Intro. to Mechanical Design	Engineering Graphics with SOLIDWORKS 2021-David Planchard	SDC Publications	978-1630574079	
ME 0051	Introduction to Thermodynamics	Fundamentals of Thermodynamics, SI Version, 9th Ed, Global Ed, Borgnakke.2018.9.14	Wiley	978-1119495246	教师会发handouts, 同学可不用购买
	Technical Elective: Applied Thermo	Fundamentals of Thermodynamics, SI Version, 9th Ed, Global Ed, Borgnakke.2018.9.14	Wiley	978-1119495246	
ENGR 0145	Statics 2	Statics and Mechanics of Materials: An Integrated Approach. 2nd Ed.W. F. Riley, L. D. Sturges, and D. H. Morris	Wiley	978-0-471-43446-7	
MEMS 1028	Mechanical Design 1	Shigley's Mechanical Engineering Design, 11th ed, Richard G. Budynas and J. Keith Nisbett, 2019.1.4	McGraw Hill	9781260569995	
ME 1014	Dynamic Systems	Modeling and Analysis of Dynamic Systems, 3rd Ed, Ramin S. Esfandiari and Bei Lu, 2018.2.9	CRC Press	978-1138726420	
ME 1042	Mechanical Measurements 2	Theory and Design for Mechanical Measurements, 7th ed, Figliola and Beasley	Wiley	978-1118881279	
ME 1041	Mechanical Measurements 1	Theory and Design for Mechanical Measurements, 7th ed, Figliola and Beasley	Wiley	978-1118881279	
IE 1035	Engineering Management	Managing Engineering and Technology, 6th Ed, Lucy C. Morse and Daniel L. Babcock 2014	Pearson	978-0-133-48510-3	
	Technical Elective: Data Mining	Data Mining: Concepts and Techniques (The Morgan Kaufmann Series in Data Management Systems) 3rd Edition, Jiawei Han, Micheline Kamber, Jian Pei	Morgan Kaufmann	978-9380931913	参考书: 数据挖掘导论 Pang-Ning Tan, Michael Steinbach, and Vipin Kumar. Introduction to data mining. Pearson Education India. 2016.
IE 1040	Engineering Economic Analysis	Engineering Economic Analysis, 12th Ed, Don Newnan, Jerome Lavelle, Ted Eschenbach	Oxford	978-0190296902	
IE 1080	Supply Chain Analysis	Designing and Managing the Supply Chain, David, Kaminsky, Philip, Simchi-Levi	McGraw-Hill	978-0-071-27097-7	

	Technical Elective: Air Pollution Engineering and Management	no textbook required			
IE 1054	Productivity Analysis	Work Systems and the Methods, Measurement & Management of Work, 2007. Groover, Mikell P.	Pearson	978-1-292-02705-0	
ECE 0301	ECE Problem Solving with C++	Starting Out With C++: From Control Structures through Objects, Tony Gaddis, 9th ed.	Pearson	978-1292222332	
STAT 1151	Introduction to Probability	Probability and Statistics for Engineering and the Sciences, 9th Ed. Walpole, Myers, Myers and Ye	Pearson	978-0-321-62911-1	
IE 1081	Operation Research	Introduction to Operations Research, Hillier, 10th Ed, F.S. and Lieberman, G.J.	McGraw-Hill	978-0073523453	
	Technical Elective: Design of Experiments and Quality Assurance	Introduction to statistical quality control, Douglas C. Montgomery, 7th edition	Wiley	978-1119635444	参考书: Montgomery, D.C., Jennings, C.L., and Pfund, M.E. (2010) "Managing, Controlling, and Improving Quality," John Wiley & Sons, NY. (ISBN 978-0-471-69791-6)
IE 1070	Probability, Random Variables, and Distributions	Probability and Statistics for Engineering and the Sciences, 9th Ed. Walpole, Myers, Myers and Ye	Pearson	978-0-321-62911-1	
	Technical Elective: Quality Management & Six Sigma	Managing for Quality and Performance Excellence, Evans, Lindsay, 10th version, 2016	Cengage	9789814834261	
ENGR 0022	Material Structure and Properties	Materials Science and Engineering: An Introduction, 10th ed, William D. Callister	Wiley	978-1-118-31922-2	
MEMS 0040	Manufacturing Processes and Analysis	Fundamentals of Modern Manufacturing, 7th ed., Mikell P. Groover, 20200715	Wiley	978-1119475217	
MSE 1030	Material Selection	Materials Selection in Mechanical Design, Michael F. Ashby, 4th ed., 2010-10-05	Butterworth-Heinemann	978-9380931722	
MSE 1010	Experimental Methods in Materials Science and Engineering	Experimental Techniques in Materials and Mechanics, C. Survanaravana, 1st edition, 2011-06-27	CRC Press	978-439819043	
MSE 1059	Phase Equilibria in Multi-Component Materials	Introduction to the Thermodynamics of Materials, 6th ed., D. R. Gaskell and D. Laughlin, 2017	CRC Press	978-1498757003	
	Technical Elective: Materials for Energy Generation & Storage	Materials in Energy Conversion, Harvesting and Storage, Kathy Lu, 1st edition, 20140829	Wiley	978-1118889107	
	Technical Elective: Tensor Analysis in Materials	no textbook required			
	Technical Elective: Solid State Physics	Introduction to solid state physics, Charles Kittel, 8th ed.	Wiley	0-471-41526-X	
MSE 1053	Structure of Crystals and Diffraction	Structure of Materials: An Introduction to Crystallography, Diffraction and Symmetry, by Marc De Graef, Michael E. McHenry (2012, 2nd Edition)	Cambridge University Press	978-1107005877	
CS 0447	Computer Organization and Assembly Language	Computer Organization and Design MIPS Edition The Hardware/Software Interface, 6th Edition, David A. Patterson, John L. Hennessy	机械工业出版社	978-7111695707	
	Technical Elective: Programming Language	C++ Primer, 5th Edition, Stanley B. Lippman,	电子工业出版社	978-7121200380	
CS 0445	Data Structures	Data Structures and Abstractions with Java, 5th ed, Frank M. Carrano, Timothy M. Henry	Pearson	9780134831695	
CMPINF 0010	Big Ideas in Computing and Information	New Perspectives on Computer Concepts, 20th Ed, June Jamrich Parsons, Dan Oja	机械工业出版社	978-7111633099	
CMPINF 0401	Intermediate Programming	C Programming: A Modern Approach, 2nd ed, K. N. King	W. W. Norton & Company	9780393979503	
ECE 0201	Digital Circuits & Systems + Lab	Digital Design: With an Introduction to the Verilog HDL, VHDL and System Verilog. 6th ed. Mano & Ciletti.	Pearson	978-0134549897	
ECE 0401	ECE Analytical Methods	Advanced Engineering Mathematics, 10th Edition, Erwin Kreyszig	Wiley	978-0-470- 91361-1	
ENGR 0011	Intro. to Engineering Analysis	MATLAB Programming for Engineers, 6th Edition, Stephen J. Chapman	Cengage	978-0-357-03039-4	
ME 1029	Mechanical Design 2	Shigley's Mechanical Engineering Design, 11th ed, Richard G. Budynas and J. Keith Nisbett, 2019.1.4	McGraw Hill	9781260569995	
	HSS Elective: World Film History	no textbook required			
	HSS Elective: Introduction to Literature	no textbook required			
	HSS Elective: Greek History	no textbook required			
	HSS Elective: Introduction to Sociology	no textbook required			
	HSS Elective: Labor Economics	参考书: 1.现代劳动经济学: 理论与公共政策 (第十版), 伊兰伯格·G·伊兰伯特 (Ronald G.Ehrenberg) 2.经济科学译丛: 劳动经济学 (第7版), 乔治·J.鲍哈斯 (George J.Borjas)	1. 中国人民大学出版社 2. 中国人民大学出版社	1. 9787300144825 2. 9787300252261	

ENGCMP140		no textbook required			
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