

Department of Industrial and Systems Engineering

BOOK LIST – Fall 2017

<u>Undergraduate</u>		<u>Graduate</u>	
540:201	WORK DESIGN & ERGO “Work Systems & The Methods, Measurements and Management of Work,” by Groover, Pearson/Prentice Hall, 1st Edition, ISBN: 978-0-131-406506-7	540:505	DECISION MAKING UNDER UNCERTAINTY “Modeling Analysis, Design, and Control of Stochastic Systems,” by Kulkarni, Springer Pub., Latest Edition ISBN: 0-387-098725
540:213	IE LABORATORY TBA	540:510	DETERM MODELS IN IE “Linear Programming & Network Flows,” by Bazaraa, Jarvis and Sherali, Wiley & Sons, 4th Edition ISBN: 978-0-470462720
540:320	ENGINEERING STATISTICS TBA	540:573	ADVANCED MFG. PROCESSES “Micro-Manufacturing: Design and Manufacturing of Micro-Products, by Koc and Ozel, Wiley Pub. 2011 ISBN: 978-0-470-556443 “Micro-Cutting: Fundamentals & Applications, by Cheng and Huo, Wiley Pub, 2013 ISBN: 978-0-470-972878 “Additive Manufacturing Technologies: Rapid Prototyping to Direct Digital Manufacturing,” by Gibson, Rosen & Stucker, Springer Pub., 2015 ISBN: 493-921126
40:338	PROB MODELS IN OR “Operations Research,” by Winston, Cengage Learning, 4th Edition ISBN: 05-343-80581	540:580	QUALITY MANAGEMENT “Managing for Quality and Performance Excellence,” by Evans and Lindsay, 10th Edition, Cengage Learning ISBN: 10:1305662547 ISBN: 13:9781305662544
540:343	ENG ECONOMICS “Engineering Economy,” by Sullivan, Wicks and Koelling, Pearson Edu, 16th Edition ISBN: 978-0-133-750218	540:585	SYSTEMS RELIAB ENG I “Reliability Engineering,” by Elsayed, 2nd Edition, Wiley Pub. ISBN: 978-1-118-137192
540:382	COMP CONT OF MFG SYS “Digital Control System Analysis & Design,” 4/E, by Phillips, Nagle & Chakraborty, Prentice Hall ISBN: 10:0132938316 ISBN: 13:978-0-132-938310  “Automation, Production Systems and Computer-Integrated Manufacturing,” 4/E, by Groover, Prentice Hall, 2015 ISBN: 10:0133499618 ISBN: 13:978-0-133-499612  “Modern Control Systems,” by Dorf & Bishop, 13th Edition ISBN: 10:0134407628 ISBN: 13:978-0-134-407623	540:594	RISK ANALYSIS No Text Required
540:400	DESIGN ENG SYS No Text Required	540:660	INVENTORY CONTROL TBA
540:433	QUALITY ENGINEERING “Statistical Quality Control,” by Montgomery, John Wiley & Sons, 7th Edition ISBN: 978-1-118-146811	540:694(01)	ADVANCED TOPICS IN IE – DATA MINING “Pattern Recognition,” by Theodoridis, 4th Edition Publisher? ISBN: 13: 978-1597492720 ISBN: 10: 1597492728
540:453	PRODUCTION CONTROL “Production & Operations Analysis,” by Nahmias and Lennon, Waveland Press, 7th Edition ISBN: 1-4786-2306-3 ISBN: 978-1-478-723069	540:694(02)	ADVANCED TOPICS IN IE – SIMULATION “Monte Carlo Statistical Methods,” by Robert and Casella, 2010, Springer ISBN: 10: 1-441-919392 ISBN: 13: 978-1-444-1919397 “Bayesian Data Analysis,” by Gelman, 3rd Edition, Chapman and Hall/CRC, English ISBN: 13: 987-1-439-840955