**IE Tech Elective List (as of 1 Jan 2017)**

**The following list applies to ALL catalog years. Choose 3 courses (9ch) – at least one must come from Group A**

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| **GROUP A** | **GROUP B** |
| **AT LEAST ONE FROM THE FOLLOWING** |  |
| IE3699 Engineering Practice  IE4426 Distributed Information Systems  IE4427 eCommerce Engineering  IE4462 Safety  IE4465 Biomechanics  IE4466 Human Computer Interaction  IE4485 Systems Integration  IE4490 Maintenance Management  IE4540 Reliability Engineering  IE4785 Special Topics | ACCT3121 Cost Analysis and Control  ACCT3233 Internal Auditing I [IA]  ACCT4121 Advanced Cost Analysis  ACCT4234 Internal Auditing II [IA]  BLAW 3201 Business Law [TECHS]  CE4620 Transportation Engineering  CE4730 Risk and Reliability Analysis in Civil and Environmental Engineering  CM1102 Construction Plan Reading  CM2101 Construction Materials and Methods  CM2102 Construction Equipment  CM 2103 Construction Materials and Methods II  CM 2501 Structural Principals and Practices  CM 2215 Construction Safety  CM3111 Construction Estimating  CM4101 Construction Scheduling and Cost Control  CM3400 Construction Materials  CM4200 Construction Administration  CM4206 Special Topics In Construction Management  CM 4211 Construction Contracting  DSM3200 Technology and Emergency Management [DSM]  ECON4040 Economic Development Policy  ECON4210 Labor Economics  ECON4320 Env Economics  ECON4421 Health Care Economics  ECON4400 Industrial Organization and Public Policy  ECON4440 Economics Govt Regulations  EE4710 Communications in Computing  ENTR 3111 Entrepreneurship  ENVS4149 Design of Environmental Management Systems  ENVS4262 Environmental Hazards Analysis  ENVS4500 Health Effects of Environmental Pollutants  EMS3040 Applied Environmental Management  EMS3050 Environmental Regulations and Compliance  EMS4020 Quantitative Risk Assessment  FIN3715 Business Finance [BADM]  ISDS4111 Enterprise Systems  ISDS4112 Data Warehousing  ISDS4114 Software Quality Assurance  ISDS4168 Supply Chain Management  KIN3514 Biomechanical Basis of Kinesiology  ME3333 Thermodynamics  ME4673 Intro to Modern Control Theory  ME4683 Sensors & Actuators  ME4733 Deformation /Fracture of Engineering Materials  ME4763 Fundamentals of Corrosion Science  MGT 3115 Financing & Legal Issues of Entrepreneurship  MGT 3200 Principles of Management [BADM] [TECHS]  MGT 3500 Introduction to Labor Relations  MGT 3512 Public Sector Labor Relations  MGT 3513 Labor-Management Conflict and Cooperation  MGT 4113 Small Business Management  MGT 4420 Multinational Management  MGT 4620 Human Behavior in Organizations  MGT 4701 Technological Entrepreneurship  MGT 4702 Managing Technology Transfer  MKT 3401 Principles of Marketing [BADM] [ENT] [TECHS]  MKT 3431 Retailing Management  MKT 4500 Entrepreneurial Marketing & Sales [ENT]  PSYC3050 Introduction to Personnel and Industrial Psychology  PSYC4034 Physiological Psychology  PSYC4050 Advanced Industrial/Organizational Psychology  RNR4036 Forest Management  RNR4038 Forest Resource Economics  RNR4050 Industrial Forestry Operations  RNR4104 Forest Products Mfg |

*SQUARE BRACKETS INDICATE IF COURSE COUNTS TOWARDS MINOR Business Administration [BADM], Technical Sales [TECHS], Internal Audit [IA], Disaster Science & Management [DSM], and Entrepreneurship [ENT] minors shown)*

NOTES CONCERNING COURSES ON RIGHT:

* 3ch of ROTC may be substituted for 1 GROUP B elective.
* Many of these courses have non-IE/engineering pre or co-requisite requirements which you may not have taken. In some cases, the prerequisites are required towards minors you may be interested in pursuing (Business, Disaster Science, etc). If you do not have the pre/co-requisite course exactly, but believe you have the appropriate background from your IE or engineering coursework, check with the professor for permission to take the course.
* The inclusion of courses on this list does not guarantee that the courses will be taught or that you will be allowed by the respective departments to take the courses (for instance, if you don’t have the required prerequisites or a department decides to limit enrollment only to its own majors).