**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 PracticeIE4426 Distributed Information SystemsIE4427 eCommerce EngineeringIE4462 SafetyIE4465 BiomechanicsIE4466 Human Computer InteractionIE4485 Systems IntegrationIE4490 Maintenance ManagementIE4540 Reliability EngineeringIE4785 Special Topics | ACCT3121 Cost Analysis and Control ACCT3233 Internal Auditing I [IA]ACCT4121 Advanced Cost AnalysisACCT4234 Internal Auditing II [IA]BLAW 3201 Business Law [TECHS]CE4620 Transportation EngineeringCE4730 Risk and Reliability Analysis in Civil and Environmental EngineeringCM1102 Construction Plan ReadingCM2101 Construction Materials and MethodsCM2102 Construction EquipmentCM 2103 Construction Materials and Methods IICM 2501 Structural Principals and PracticesCM 2215 Construction SafetyCM3111 Construction EstimatingCM4101 Construction Scheduling and Cost ControlCM3400 Construction MaterialsCM4200 Construction AdministrationCM4206 Special Topics In Construction ManagementCM 4211 Construction ContractingDSM3200 Technology and Emergency Management [DSM]ECON4040 Economic Development PolicyECON4210 Labor EconomicsECON4320 Env EconomicsECON4421 Health Care EconomicsECON4400 Industrial Organization and Public PolicyECON4440 Economics Govt RegulationsEE4710 Communications in ComputingENTR 3111 Entrepreneurship ENVS4149 Design of Environmental Management SystemsENVS4262 Environmental Hazards AnalysisENVS4500 Health Effects of Environmental PollutantsEMS3040 Applied Environmental ManagementEMS3050 Environmental Regulations and ComplianceEMS4020 Quantitative Risk AssessmentFIN3715 Business Finance [BADM]ISDS4111 Enterprise Systems ISDS4112 Data WarehousingISDS4114 Software Quality AssuranceISDS4168 Supply Chain ManagementKIN3514 Biomechanical Basis of KinesiologyME3333 ThermodynamicsME4673 Intro to Modern Control TheoryME4683 Sensors & ActuatorsME4733 Deformation /Fracture of Engineering MaterialsME4763 Fundamentals of Corrosion ScienceMGT 3115 Financing & Legal Issues of EntrepreneurshipMGT 3200 Principles of Management [BADM] [TECHS]MGT 3500 Introduction to Labor RelationsMGT 3512 Public Sector Labor RelationsMGT 3513 Labor-Management Conflict and CooperationMGT 4113 Small Business ManagementMGT 4420 Multinational ManagementMGT 4620 Human Behavior in OrganizationsMGT 4701 Technological EntrepreneurshipMGT 4702 Managing Technology TransferMKT 3401 Principles of Marketing [BADM] [ENT] [TECHS]MKT 3431 Retailing ManagementMKT 4500 Entrepreneurial Marketing & Sales [ENT]PSYC3050 Introduction to Personnel and Industrial PsychologyPSYC4034 Physiological PsychologyPSYC4050 Advanced Industrial/Organizational PsychologyRNR4036 Forest ManagementRNR4038 Forest Resource EconomicsRNR4050 Industrial Forestry OperationsRNR4104 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).