**BSIE Tech Elective List**

**The following list applies to ALL catalog years from 2019-2020 to present. Choose any 3 courses (9ch).
For convenience, Tech Electives in IE are shown on left and Tech Electives from other disciplines on the right.**

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| IE3699 Engineering PracticeIE4120 Healthcare EngineeringIE4426 Distributed Information Systems **[ECOM]**IE4427 eCommerce Engineering **[ECOM]**IE4462 SafetyIE4465 BiomechanicsIE4466 Human Computer Interaction **[ECOM]**IE4485 Systems Integration **[ECOM]**IE4486 Industry 4.0 & Smart Manufacturing **[ECOM]**IE4540 Reliability EngineeringIE4785 Special Topics & Independent Study | ACCT3121 Cost Analysis and Control ACCT3233 Internal Auditing I **[IA]**ACCT4121 Advanced Cost AnalysisACCT4234 Internal Auditing II **[IA]**BLAW 3201 Business Law **[TECHS]**CM3111 Construction EstimatingCM4101 Construction Scheduling and Cost ControlCM4206 Special Topics In Construction ManagementCM 4211 Construction ContractingECON4320 Env EconomicsECON4421 Health Care EconomicsECON4400 Industrial Organization and Public PolicyENGR 3100 Introduction to Robotics **[ROBOT]**ENGR 4100 Industrial Robots **[ROBOT]**ENGR 4103 Assistive Robotics **[ROBOT]**ENGR 4200 Autonomous Robotic Vehicles **[ROBOT]**ENTR 3111 Entrepreneurship ENTR4702 Managing Technology TransferENVS4149 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]**GEOG 4200 Hazard Risk Reduction **[DSM]**ISDS4160 Sourcing in China **[ECOM]**ISDS4168 Supply Chain ManagementISDS 4070 Special Topics in Information Systems & Decision Sciences [ECOM]ISDS 4096 Cyber Risk Management **[ECOM]**KIN3514 Biomechanical Basis of KinesiologyME3333 ThermodynamicsME4673 Intro to Modern Control TheoryME4683 Sensors & ActuatorsME4733 Deformation /Fracture of Engineering MaterialsME4763 Fundamentals of Corrosion ScienceMGT 3200 Principles of Management **[BADM] [TECHS]**MGT 4500 Introduction to Labor RelationsMGT 3512 Public Sector Labor RelationsMGT 3513 Negotiation and Dispute Resolution MGT 4620 Human Behavior in OrganizationsMKT 3401 Principles of Marketing **[BADM] [ENT] [TECHS]**MKT 3431 Retailing ManagementMKT 4500 Entrepreneurial Marketing & Sales **[ENT]**PSYC3050 Introduction to Personnel and Industrial PsychologyPSYC4034 Physiological PsychologyRNR4036 Forest ManagementRNR4038 Forest Resource Economics |

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

NOTES CONCERNING COURSES ON RIGHT:

* In addition to 3000/4000 level engineering courses with some connection to IE as Tech Electives (with Departmental approval).
* 3ch of ROTC may be substituted for a Tech 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).