**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 Practice  IE4120 Healthcare Engineering  IE4426 Distributed Information Systems **[ECOM]**  IE4427 eCommerce Engineering **[ECOM]**  IE4462 Safety  IE4465 Biomechanics  IE4466 Human Computer Interaction **[ECOM]**  IE4485 Systems Integration **[ECOM]**  IE4486 Industry 4.0 & Smart Manufacturing **[ECOM]**  IE4540 Reliability Engineering  IE4785 Special Topics & Independent Study | ACCT3121 Cost Analysis and Control  ACCT3233 Internal Auditing I **[IA]**  ACCT4121 Advanced Cost Analysis  ACCT4234 Internal Auditing II **[IA]**  BLAW 3201 Business Law **[TECHS]**  CM3111 Construction Estimating  CM4101 Construction Scheduling and Cost Control  CM4206 Special Topics In Construction Management  CM 4211 Construction Contracting  ECON4320 Env Economics  ECON4421 Health Care Economics  ECON4400 Industrial Organization and Public Policy  ENGR 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 Transfer  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]**  GEOG 4200 Hazard Risk Reduction **[DSM]**  ISDS4160 Sourcing in China **[ECOM]**  ISDS4168 Supply Chain Management ISDS 4070 Special Topics in Information Systems & Decision Sciences [ECOM] ISDS 4096 Cyber Risk Management **[ECOM]**  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 3200 Principles of Management **[BADM] [TECHS]**  MGT 4500 Introduction to Labor Relations  MGT 3512 Public Sector Labor Relations  MGT 3513 Negotiation and Dispute Resolution  MGT 4620 Human Behavior in Organizations  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  RNR4036 Forest Management  RNR4038 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).