

## 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.

IE3699 Engineering Practice	ACCT3121 Cost Analysis and Control
IE4120 Healthcare Engineering	ACCT3233 Internal Auditing I [IA]
IE4426 Distributed Information Systems [ECOM]	ACCT4121 Advanced Cost Analysis
IE4427 eCommerce Engineering [ECOM]	ACCT4234 Internal Auditing II [IA]
IE4462 Safety	BLAW 3201 Business Law [TECHS]
IE4465 Biomechanics	CM3111 Construction Estimating
IE4466 Human Computer Interaction [ECOM]	CM4101 Construction Scheduling and Cost Control
IE4485 Systems Integration [ECOM]	CM4206 Special Topics In Construction Management
IE4486 Industry 4.0 & Smart Manufacturing [ECOM]	CM 4211 Construction Contracting
IE4540 Reliability Engineering	ECON4320 Env Economics
IE4785 Special Topics & Independent Study	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]
	ISDS4161 Sourcing in China [ECOM]
	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 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).