

PROJECTED IE COURSE OFFERINGS

| Course Details | | | | | | | | | | | |
|----------------|--|---------|---|---------|---|---------|---|-----------|---|---------|---|
| COURSE NUMBER | COURSE NAME (Core courses shown in red color) | 2019-20 | | 2020-21 | | 2021-22 | | 2022-2023 | | 2023-24 | |
| | | F | S | F | S | F | S | F | S | F | S |
| IE 411 (ME) | Mechatronics I | O | | O | | O | | O | | O | |
| IE 412 (ME) | Dynamic System Analysis I | O | | O | | O | | O | | O | |
| IE 441 | Ergonomics and Human Factors | O | | O | | O | | O | | O | |
| IE 442 | Design and Analysis of Experiments | | O | | O | | O | | O | | O |
| IE 446 | Quality Control and Reliability | | O | | O | | O | | O | | O |
| IE 461 | Safety Engineering | O | | O | | O | | O | | O | |
| IE 463 | Plant Layout and Materials Handling | | O | | O | | O | | O | | O |
| IE 466 | Production Planning and Inventory Control | | O | | O | | O | | O | | O |
| IE 467 | Discrete Event Computer Simulation Application | O | | O | | O | | O | | O | |
| IE 471 | Operations Research I | O | | O | | O | | O | | O | |
| IE 472 | Operations Research II | | O | | O | | O | | O | | O |
| IE 473 | Stochastic Processes and Queuing Models | O | | O | | O | | O | | O | |
| IE 494 | Supply Chain Management | | | | | | | | | | |
| IE 511 | Mechatronics II | | X | | X | | X | | X | | X |
| IE 567 | Data Mining for Machine Health Diagnosis & Prognosis | | | | X | | | | X | | |
| IE 594 | Virtual Surgical Simulation | | | | | | | | | | |
| IE 594 | Virtual Healthcare Engineering | X | | | | X | | | | X | |
| IE 594 | Distributed Decision Making | X | | | | X | | | | | |
| IE 594 | Time Series Analysis and Forecasting | | | X | | | | X | | | |
| IE 594 | 3D Printing/Additive Manufacturing | | X | | X | | X | | X | | X |
| IE 594 | Data Science I | X | | X | | X | | X | | X | |
| IE 594 | Data Science II | | X | | X | | X | | X | | X |
| IE 594 | Intro to Applied Optimization (BioE) | | X | | X | | X | | X | | X |
| IE 594 | Process Mining in Healthcare Engineering | | | X | | | | X | | | |

Notes

MSIE students with a BSIE degree must take IE446 and IE472; they must also demonstrate coverage of IE342 and IE471, but neither count for the degree