

Choosing Electives (for the class of 2023 and onward):

Beginning in 3A, students begin choosing electives. By graduation each student is required to have successfully completed six [technical electives from List I](#), one [CSE List A Impact elective](#), and two “free” electives. Management Sciences normally offers the following courses toward these elective requirements:

- 3A Winter 2021 onward –**one elective required**:
 - List I
 - MSCI 445 Telecommunication Systems: from protocols to applications
 - MSCI 446 Data Mining
 - MSCI 555 Scheduling: Theory and Practice
 - Impact
 - MSCI 442 Impact of Information Systems on Organizations and Society
- 3B Fall 2021 onward - **two electives required**:
 - List I
 - MSCI 541 Search Engines
 - MSCI 551 Quality Management and Control
 - Impact
 - MSCI 422 Economic Impact of Technological Change and Entrepreneurship
- 4A Spring 2022 onward –**two electives required**:
 - List I
 - MSCI 452 Decision Making Under Uncertainty
 - MSCI 531 Stochastic Processes and Decision Making
 - MSCI 543 Analytics and User Experience
 - Free
 - MSCI 411 Leadership
 - MSCI 421 Strategic Management of Technology
- 4B Winter 2023 onward – **four electives required**:
 - List I
 - MSCI 433 Applications of Management Engineering
 - MSCI 435 Advanced Optimization Techniques
 - MSCI 445 Telecommunication Systems: from protocols to applications
 - MSCI 446 Data Mining
 - MSCI 555 Scheduling: Theory and Practice
 - Impact
 - MSCI 442 Impact of Information Systems on Organizations and Society
 - Free
 - MSCI 423 Managing New Product and Process Innovation
 - MSCI 454 Technical Entrepreneurship