Integrated Innovation Institute

Master of Science in Technology Ventures
Applied Engineering Courses – Fall 2021

Biomedical Engineering
42-611, Engineering Biomaterials
42-612, Tissue Engineering (Crosslisted with 27720)
42-649, Introduction to Biomechanics (Crosslisted with 24664)
42-691, Biomechanics of Human Movement (Crosslisted with 24663) (9 units)
42-675, Fundamentals of Computational Biomedical Engineering
42-677, Rehabilitation Engineering (9 units)
42-744, Medical Devices

Civil and Environmental Engineering
12-704, Probability & Estimation Methods for Engineering Systems
17-706, Civil Systems Investment Pricing & Planning
12-740, Data Acquisition (*6 unit mini)
12-741, Data Management (*6 unit mini)
12-783, Georgraphic Information Systems

Chemical Engineering
06-609, Physical Chemistry of Macromolecules (*9 Units)
06-635, Production & Supply Chain Optimization
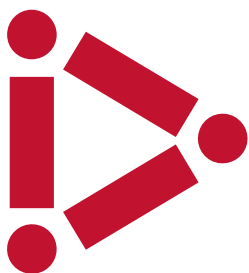06-704, Advanced Heat & Mass Transfer
06-705, Advanced Chemical Engineering Thermodynamics
06-713, Mathematical Techniques in Chemical Engineering

Electrical & Computer Engineering
18-613, Foundations of Computer Systems
18-631, Introduction to Information Security

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18-638, Mobile & IoT Security
18-645, How to Write Fast Code
18-650, Policies of Wireless Systems
18-730, Introduction to Computer Security
18-734, Foundation of Privacy
18-785, Data Inference, and Applied Machine Learning
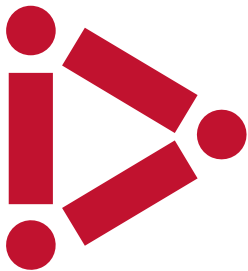18-794, Pattern Recognition Theory

Materials Science and Engineering

27-700, Energy Storage Materials & Systems (Crosslisted with 26443)
27-702, Metal Environment Reactions
27-703, Additive Manufacturing and Materials
27-706, Hard and Superhard Materials (*6 unit mini)
27-709, Engineering Biomaterials
27-720, Tissue Engineering (Crosslisted with 42612)
27-700, Energy Storage Materials & Systems (Crosslisted with 24-643)

Mechanical Engineering

24-632, Special Topics: Addivite Manufacturing and Product Development
24-643, Energy Storage Materials & Systems (Crosslisted with 27-700)
24-663, Special Topics: Biomechanics of Human Movement (Crosslisted with 42691)
24-664, Introduction to Biomechanics (Crosslisted with 42649)
24-671, Special Topics: Electromechanical Systems Design
24-672, Special Topics in DIY Design and Fabrication
24-678 Special Topics: Computer Vision for Engineers
24-679 Special Topics: Designing & Deploying AI/ML Systems
24-682, Design for the Fourth Industrial Revolution
24-683, Design for Manufacture and the Environment
24-787, Machine Learning and Artificial Intelligence for Engineers

School of Computer Science

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16-861, Space Robotics

ETIM
19-707, Multiple Criteria & Decision Making

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