Approved Degree Courses

This is a sample list of courses that have been previously approved for degree credit in the System Design and Management program. Courses are noted as depth, foundation, or elective courses. The list is provided to give perspective on the range of options available through the SDM program. Courses are added and removed each term. As a result, this document is for informational purposes only and should not be used for planning degree completion.

For the most up-to-date information on course offerings, including complete course descriptions, please visit the MIT course catalog.

ENGINEERING COURSES

1.001 ENGINEERING COMPUTATION AND DATA SCIENCE
12 CREDITS | ELECTIVE

1.125 ARCHITECTING AND ENGINEERING SOFTWARE SYSTEMS
12 CREDITS | ELECTIVE

1.200[J] TRANSPORTATION FOUNDATION AND METHODS
12 CREDITS | DEPTH

1.202 DEMAND MODELING
12 CREDITS | DEPTH

1.208 RESILIENT NETWORKS
12 CREDITS | ELECTIVE

1.261[J] LOGISTICS AND SUPPLY CHAIN MANAGEMENT
6 CREDITS | ELECTIVE

1.263[J] URBAN LAST-MILE LOGISTICS
6 CREDITS | ELECTIVE

1.275[J] BUSINESS AND OPERATIONS ANALYTICS
6 CREDITS | ELECTIVE
1.286[J] ENERGY & INFRASTRUCTURE TECHNOLOGY
12 CREDITS | ELECTIVE

1.472[J] INNOVATIVE PROJECT DELIVERY
6 CREDITS | ELECTIVE

1.541[J] MECHANICS AND DESIGN: CONCRETE STRUCTURES
12 CREDITS | ELECTIVE

1.573[J] STRUCTURAL MECHANICS
12 CREDITS | ELECTIVE

1.582 STEEL STRUCTURES
12 CREDITS | ELECTIVE

1.818[J] SUSTAINABLE ENERGY
12 CREDITS | ELECTIVE

2.096[J] INTRODUCTION TO MODULING & SIMULATION
12 CREDITS | ELECTIVE

2.111[J] QUANTUM COMPUTATION
12 CREDITS | ELECTIVE

2.120[J] INTRODUCTION TO ROBOTICS
12 CREDITS | ELECTIVE

2.131 ADVANCED INSTRUMENTATION AND MEASUREMENT
12 CREDITS | ELECTIVE

2.140[J] ANALYSIS AND DESIGN OF FEEDBACK CONTROL SYSTEMS
12 CREDITS | ELECTIVE

2.151 ADVANCED SYSTEM DYNAMICS AND CONTROL
12 CREDITS | ELECTIVE

2.154 MANEUVERING AND CONTROL OF VEHICLES
12 CREDITS | ELECTIVE

2.160 IDENTIFICATION, ESTIMATION, AND LEARNING
12 CREDITS | ELECTIVE

2.165[J] ROBOTICS
12 CREDITS | ELECTIVE

2.183[J] NEURAL CONTROL OF MOVEMENT
12 CREDITS | ELECTIVE
2.22[J] DESIGN PRINCIPLES OCEAN VEHICLES
12 CREDITS | ELECTIVE

2.42 GENERAL THERMODYNAMICS
12 CREDITS | ELECTIVE

2.55 ADVANCED HEAT AND MASS TRANSFER
12 CREDITS | ELECTIVE

2.62[J] FUNDAMENTALS OF ADVANCED ENERGY CONVERSION
12 CREDITS | ELECTIVE

2.625[J] ELECTROCHEMICAL ENERGY
12 CREDITS | ELECTIVE

2.680 MARINE VEHICLE AUTONOMY
12 CREDITS | ELECTIVE

2.702 SYSTEMS ENGINEERING & NAVAL SHIP DESIGN
12 CREDITS | ELECTIVE

2.720[J] ELEMENTS OF MECHANICAL DESIGN
12 CREDITS | ELECTIVE

2.737 MECHATRONICS
12 CREDITS | ELECTIVE

2.740[J] BIO-INSPIRED ROBOTICS
12 CREDITS | ELECTIVE

2.75[J] MEDICAL DEVICE DESIGN
12 CREDITS | ELECTIVE

2.76[J] GLOBAL ENGINEERING
12 CREDITS | ELECTIVE

2.77[J] PRECISION PRODUCT DESIGN
12 CREDITS | ELECTIVE

2.782[J] DESIGN OF MEDICAL DEVICES AND IMPLANTS
12 CREDITS | ELECTIVE

2.788 DESIGN OF LIVING
12 CREDITS | ELECTIVE

2.79[J] BIOMATERIALS: TISSUE INTERACTIONS
12 CREDITS | ELECTIVE
2.810 MANUFACTURING PROCESSES AND SYSTEMS
12 CREDITS | ELECTIVE

2.821[J] STRUCTURAL MATERIALS
12 CREDITS | ELECTIVE

2.83[J] ENERGY, MATERIALS AND MANUFACTURING
12 CREDITS | DEPTH

2.830[J] CONTROL OF MANUFACTURING PROCESSES
12 CREDITS | ELECTIVE

2.854[J] INTRODUCTION TO MANUFACTURING SYSTEMS
12 CREDITS | DEPTH

2.888 GLOBAL MANUFACTURING AND ENTREPRENEURSHIP
3 CREDITS | ELECTIVE

3.207[J] INNOVATION AND COMMERCIALIZATION
12 CREDITS | ELECTIVE

3.22 STRUCT AND MECHANICS OF MTLS
12 CREDITS | ELECTIVE

3.371[J] STRUCTURAL MATERIALS
12 CREDITS | ELECTIVE

3.560[J] INDUSTRIAL ECOLOGY
12 CREDITS | ELECTIVE

3.70[J] MATERIALS SCIENCE & ENGINEERING OF CLEAN ENERGY
12 CREDITS | ELECTIVE

6.3102[J] DYNAMIC SYS MOD & CONTR DESIGN
12 CREDITS | ELECTIVE

6.3952[J] AI, DECISION MAKING & SOCIETY
12 CREDITS | ELECTIVE

6.4132[J] PRIN OF AUTONOMY & DEC MAKING
12 CREDITS | ELECTIVE

6.4822[J] QUAN PHYS: ORGAN TRANSPORT SYS
12 CREDITS | ELECTIVE

6.4832[J] FIELDS, FORCES, FLOWS: BIOL SYS
12 CREDITS | ELECTIVE
6.4861[J] MEDICAL DEVICE DESIGN
12 CREDITS | ELECTIVE

6.5160[J] COMPUTATIONAL CLASSICAL MECHANICS
12 CREDITS | ELECTIVE

6.5400[J] THEORY OF COMPUTATION
12 CREDITS | ELECTIVE

6.5610 APPLIED CRYPTO AND SECURITY
12 CREDITS | ELECTIVE

6.5660 COMP SYSTEMS SECURITY
12 CREDITS | ELECTIVE

6.5810 OPERATING SYSTEM ENGINEERING
12 CREDITS | ELECTIVE

6.5820 COMPUTER NETWORKS
12 CREDITS | ELECTIVE

6.5830[J] DATABASE SYSTEMS
12 CREDITS | ELECTIVE

6.5840 DIST COMPUTER SYS ENGINEERING
12 CREDITS | ELECTIVE

6.5900 COMPUTER SYSTEM ARCHITECTURE
12 CREDITS | ELECTIVE

6.6010 ANALYS & DESIGN: DIGITAL CIRCUIT
12 CREDITS | ELECTIVE

6.6020 HIGH SPEED COMM CIRCUITS
12 CREDITS | ELECTIVE

6.630 ELECTROMAGNETICS
12 CREDITS | ELECTIVE

6.631 OPTICS AND PHOTONICS
12 CREDITS | ELECTIVE

6.6330[J] FUNDAMENTALS OF PHOTONICS
12 CREDITS | ELECTIVE

6.6370[J] OPTICAL SIGNALS DEVICES SYSTEMS
12 CREDITS | ELECTIVE
6.6400 APPL QUANTUM & STATISTICAL PHYS  
12 CREDITS | ELECTIVE

6.6500[J] INTEGRATED MICROELECTR DEVICES  
12 CREDITS | ELECTIVE

6.7100[J] DYNAMIC SYSTEMS AND CONTROL  
12 CREDITS | ELECTIVE

6.7260 NETWORK SCIENCE & MODELS  
12 CREDITS | ELECTIVE

6.7300[J] INTRO TO MODELING & SIMULATION  
12 CREDITS | ELECTIVE

6.7320[J] PARALLEL COMP, MACHINE LEARN  
12 CREDITS | ELECTIVE

6.7410[J] PRINC OF DIGITAL COMMUNICATION  
12 CREDITS | ELECTIVE

6.7810 ALGORITHMS FOR INFEERENCE  
12 CREDITS | ELECTIVE

6.7900 MACHINE LEARNING  
12 CREDITS | ELECTIVE

6.7910[J] STATISTICAL LEARNING THEORY  
12 CREDITS | ELECTIVE

6.7930[J] MACHINE LEARNING HEALTHCARE  
12 CREDITS | ELECTIVE

6.8110[J] COGNITIVE ROBOTICS  
12 CREDITS | ELECTIVE

6.8210 UNDERACTUATED ROBOTICS  
12 CREDITS | ELECTIVE

6.8300[J] ADVANCES IN COMPUTER VISION  
12 CREDITS | ELECTIVE

6.8510 INTELLI MULTI USER INTERFACES  
12 CREDITS | ELECTIVE

6.8610[J] QUANT NATURAL LANG PROCESSING  
12 CREDITS | ELECTIVE
10.392[J] FUNDAMENTALS OF ADVANCED ENERGY CONVERSION
12 CREDITS | ELECTIVE

10.524 PHARMACEUTICAL ENGINEERING
9 CREDITS | ELECTIVE

10.53 ADVANCES IN BIOMANUFACTURING
3 CREDITS | ELECTIVE

10.551 SYSTEM ENGINEERING
9 CREDITS | ELECTIVE

10.552 MODERN CONTROL DESIGN
9 CREDITS | ELECTIVE

10.585 ENGINEERING NANOTEchnology
12 CREDITS | ELECTIVE

16.31[J] FEEDBACK CONTROL SYSTEMS
12 CREDITS | ELECTIVE

16.32 OPTIMAL CONTROL & ESTIMATION
12 CREDITS | ELECTIVE

16.343 SPACECRAFT AND AIRCRAFT SENSORS AND INSTRUMENTATION
12 CREDITS | ELECTIVE

16.355[J] ENGINEERING OF SOFTWARE
12 CREDITS | ELECTIVE

16.391 STATS FOR ENGRS & SCIENTISTS
12 CREDITS | ELECTIVE

16.422 HUMAN SUPERVISORY CONTROL
12 CREDITS | ELECTIVE

16.423[J] AEROSPACE BIOMEDICAL AND LIFE SUPPORT ENGINEERING
12 CREDITS | ELECTIVE

16.453[J] HUMAN SYSTEMS ENGINEERING
12 CREDITS | DEPTH

16.470 STATISTICAL METHODS
12 CREDITS | ELECTIVE
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22.55 RADIATION BIOPHYSICS
12 CREDITS | ELECTIVE

22.611[J] INTRODUCTION TO PLASMA PHYSICS 1
12 CREDITS | ELECTIVE

22.811[J] SUSTAINABLE ENERGY
12 CREDITS | ELECTIVE

IDS.131 STATISTICS, COMPUTATION AND APPLICATIONS
12 CREDITS | ELECTIVE

IDS.330 REAL OPTIONS FOR PRODUCT AND SYSTEMS DESIGN
6 CREDITS | DEPTH

IDS.412[J] SCIENCE, TECHNOLOGY, & PUBLIC POLICY
12 CREDITS | ELECTIVE

IDS.521[J] ENERGY SYSTEMS AND CLIMATE CHANGE MITIGATION
12 CREDITS | ELECTIVE

SCM.264[J] DATABASES AND DATA ANALYSIS FOR SUPPLY CHAIN MANAGEMENT
6 CREDITS | ELECTIVE

SCM.29 PROCURRENT FUNDAMENTALS
6 CREDITS | ELECTIVE

SCM.29 DIGITAL SC TRANSFORMATION
6 CREDITS | ELECTIVE
MANAGEMENT COURSES

**EM.425 RESEARCH IN ENG PROJ TEAMWORK**  
6 CREDITS | FOUNDATION

**EM.426 MODEL-BUILDING & ANALYSIS LAB**  
6 CREDITS | FOUNDATION

**EM.427[J] TECH ROADMAPPING**  
12 CREDITS | FOUNDATION

**1.266 SUPPLY CHAIN DEMAND ANALYTICS**  
6 CREDITS | FOUNDATION

**6.7700[J] FUNDAMENTALS OF PROBABILITY**  
12 CREDITS | FOUNDATION

**6.9280[J] LEADING CREATIVE TEAMS**  
9 CREDITS | FOUNDATION

**16.855[J] SYS ARCHITECTING: ENTERPRISES**  
12 CREDITS | FOUNDATION

**SCM.29 SUSTAINABLE SC MANAGEMENT**  
6 CREDITS | FOUNDATION

**15.025[J] GAME THEORY FOR STRATEGIC ADVANTAGE**  
9 CREDITS | ELECTIVE

**15.032[J] ENG ECON & REG: ELECTRIC POWER**  
12 CREDITS | ELECTIVE

**15.034[J] ECONOMETRICS FOR MANAGERS**  
9 CREDITS | FOUNDATION

**15.054[J] AIRLINE INDUSTRY**  
12 CREDITS | ELECTIVE

**15.062[J] DATA MINING**  
6 CREDITS | ELECTIVE

**15.068 STATISTICAL CONSULTING**  
9 CREDITS | ELECTIVE

**15.070[J] DISCRETE PROB & STOCH PROCESS**  
12 CREDITS | FOUNDATION
15.071 THE ANALYTICS EDGE
12 CREDITS | FOUNDATION

15.072 ADVANCED ANALYTICAL EDGE
12 CREDITS | FOUNDATION

15.081[J] INTRO TO MATH PROGRAMMING
12 CREDITS | ELECTIVE

15.083 INTEGER OPTIMIZATION
12 CREDITS | ELECTIVE

15.084[J] NONLINEAR OPTIMIZATION
12 CREDITS | ELECTIVE

15.085[J] FUNDAMENTALS OF PROBABILITY
12 CREDITS | ELECTIVE

15.093[J] OPTIMIZATION METHODS
12 CREDITS | ELECTIVE

15.094[J] ROBUST MODELING, OPTIMIZATION AND COMP
12 CREDITS | ELECTIVE

15.095 MACHINE LEARNING UNDER OPT LENS
12 CREDITS | ELECTIVE

15.128 [J] INVENT/DEPLOY TRANSFORMATIVE TECH
9 CREDITS | ELECTIVE

15.136[J] PRINC & PRACTICE: DRUG DEVELOPMENT
9 CREDITS | ELECTIVE

15.141[J] ECONOMICS OF HEALTH CARE INDUSTRIES
6 CREDITS | ELECTIVE

15.216 CTRL BNKS, MON POLICY & GLOB FIN
9 CREDITS | ELECTIVE

15.218 GLOBAL ECON CHALLENGES & OPPORT
9 CREDITS | ELECTIVE

15.223 GLOBAL MARKETS, NATL POLICIES
6 CREDITS | ELECTIVE

15.225 MODERN BUSINESS IN CHINA: CHINA LAB
12 CREDITS | ELECTIVE
15.226 MOD BUS IN SE ASIA: ASEAN LAB  
12 CREDITS | ELECTIVE

15.232 BREAKTHROUGH VENTURES  
6 CREDITS | ELECTIVE

15.235 BLOCKCHAIN & MONEY  
6 CREDITS | ELECTIVE

15.236 GLOBAL BUSINESS: AI & ROBOTICS  
6 CREDITS | ELECTIVE

15.248 ISRAEL LAB: STARTUP NATION’S ENTREPRENEURSHIP & INNOVATION ECOSYSTEM  
12 CREDITS | ELECTIVE

15.269 LEADERSHIP STORIES  
9 CREDITS | ELECTIVE

15.270 ETHICAL PRACTICE  
6 CREDITS | ELECTIVE

15.281 ADVANCED LEADERSHIP COMMUNICATION  
9 CREDITS | ELECTIVE

15.283 SOCIAL MEDIA MANAGEMENT  
9 CREDITS | ELECTIVE

15.286 COMMUNICATING WITH DATA  
6 CREDITS | ELECTIVE

15.310 PEOPLE, TEAMS, AND ORGANIZATIONS  
9 CREDITS | FOUNDATION

15.318 DISCOVERING LEADERSHIP SIGNATURE  
9 CREDITS | ELECTIVE

15.320 STRATEGIC ORGANIZATIONAL DESIGN  
9 CREDITS | FOUNDATION

15.321 IMPROVISATIONAL LEADERSHIP  
6 CREDITS | ELECTIVE

15.363[J] STRATEGIC DECISION MAKING IN THE LIFE SCIENCES  
9 CREDITS | ELECTIVE
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6 CREDITS | ELECTIVE

15.394 ENTREPRENEURIAL FOUNDING AND TEAMS  
9 CREDITS | FOUNDATION

15.398 CORPORATIONS AT THE CROSSROADS  
6 CREDITS | ELECTIVE

15.399 ENTREPRENEURSHIP LAB  
12 CREDITS | ELECTIVE

15.401 MANAGERIAL FINANCE  
9 CREDITS | FOUNDATION

15.402 CORPORATE FINANCE  
9 CREDITS | ELECTIVE

15.426[J] REAL ESTATE FINANCE AND INVESTMENT  
12 CREDITS | ELECTIVE

15.431 ENTREPRENEURIAL FINANCE & VENTURE  
9 CREDITS | FOUNDATION

15.434 ADVANCED CORPORATE FINANCE  
9 CREDITS | FOUNDATION

15.439 QUANTITATIVE INVESTMENT MANAGEMENT  
9 CREDITS | FOUNDATION

15.451 PROSEMINAR IN CAPITAL MARKETS/INVESTMENT MANAGEMENT  
6 CREDITS | ELECTIVE

15.453 FINANCE LAB  
9 CREDITS | ELECTIVE

15.456 FINANCIAL ENGINEERING  
9 CREDITS | ELECTIVE

15.458 FINANCIAL DATA SCIENCE & COMPUTING I  
9 CREDITS | ELECTIVE

15.480[J] SCIENCE AND BUS OF BIOTECH  
9 CREDITS | ELECTIVE
15.481[J] FINANCIAL MARKET DYNAMICS AND HUMAN BEHAVIOR  
9 CREDITS | ELECTIVE

15.492 CRYPTO FINANCE  
6 CREDITS | ELECTIVE

15.497 FINTECH VENTURES  
9 CREDITS | ELECTIVE

15.499 SOCIAL IMPACT INVESTING  
9 CREDITS | ELECTIVE

15.515 FINANCIAL ACCOUNTING  
9 CREDITS | FOUNDATION

15.516 CORPORATE FINANCIAL ACCOUNTING  
12 CREDITS | FOUNDATION

15.521 ACCOUNTING INFORMATION FOR DECISION MAKERS  
6 CREDITS | FOUNDATION

15.535 BUSINESS ANALYSIS USING FINANCIAL STATEMENTS  
9 CREDITS | FOUNDATION

15.561 INFO TECHNOLOGY ESSENTIALS  
9 CREDITS | FOUNDATION

15.562 WEB3 AND STRATEGY  
6 CREDITS | FOUNDATION

15.567 ECONOMICS OF INFORMATION  
6 CREDITS | ELECTIVE

15.570 DIGITAL MARKETING  
6 CREDITS | ELECTIVE

15.572 ANALYTICS, MACH LEARN, DIG ECON  
9 CREDITS | ELECTIVE

15.580 SEM IN INFORMATION TECHNOLOGY  
1 CREDITS | ELECTIVE

15.615 ESSENTIAL LAW FOR BUSINESS  
9 CREDITS | ELECTIVE

15.655[J] LAW, TECHNOLOGY, & PUB POLICY  
12 CREDITS | ELECTIVE
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