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](http://example.com).

**ENGINEERING COURSES**

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1.208 RESILIENT INFRASTRUCTURE NETWORKS
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1.231[J] PLANNING AND DESIGN OF AIRPORT SYSTEMS
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1.472 INNOVATIVE PROJECT DELIVERY IN THE PUBLIC AND PRIVATE SECTORS
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2.141 MODELING AND SIMULATION OF DYNAMIC SYSTEMS
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2.151 ADVANCED SYSTEM DYNAMICS AND CONTROL
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2.183[J] BIOMECHANICS AND NEURAL CONTROL OF MOVEMENT
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MANAGEMENT COURSES

15.011 ECONOMIC ANALYSIS FOR BUSINESS DECISIONS
9 CREDITS | FOUNDATION

15.020 ECONOMICS OF ENERGY, INNOVATION, AND SUSTAINABILITY
12 CREDITS | ELECTIVE

15.025 GAME THEORY FOR STRATEGIC ADVANTAGE
9 CREDITS | ELECTIVE

15.027 BUSINESS OPPORTUNITIES IN DEVELOPING ECONOMIES
6 CREDITS | ELECTIVE

15.034 ECONOMETRICS FOR MANAGERS: CORRELATION & CAUSALITY IN A BIG DATA WORLD
9 CREDITS | FOUNDATION

15.038 ENERGY ECONOMICS AND POLICY
12 CREDITS | ELECTIVE

15.068 STATISTICAL CONSULTING
9 CREDITS | ELECTIVE

15.071 THE ANALYTICS EDGE
12 CREDITS | FOUNDATION

15.079 INTRODUCTION TO APPLIED PROBABILITY
12 CREDITS | ELECTIVE

15.083 INTEGER PROGRAMMING AND COMBINATORIAL OPTIMIZATION
12 CREDITS | ELECTIVE

15.124 EVALUATING A BIOMEDICAL BUSINESS CONCEPT
9 CREDITS | ELECTIVE

15.128 REVOLUTIONARY VENTURES
9 CREDITS | ELECTIVE

15.132 MEDICINE FOR MANAGERS AND ENTREPRENEURS
9 CREDITS | ELECTIVE

15.137 CASE STUDIES AND STRATEGIES IN DRUG DISCOVERY AND DEVELOPMENT
6 CREDITS | ELECTIVE
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<td>MODERN BUSINESS IN CHINA: CHINA LAB</td>
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<td>EFFECTIVE BUSINESS MODELS IN FRONTIER MARKETS</td>
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<td>ISRAEL LAB: STARTUP NATION’S ENTREPRENEURSHIP &amp; INNOVATION ECOSYSTEM</td>
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<td>15.269</td>
<td>LEADERSHIP STORIES: LITERATURE, ETHICS, AND AUTHORITY</td>
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<td>ETHICAL PRACTICE: LEADING THROUGH PROFESSIONALISM, SOCIAL RESPONSIBILITY, AND SYSTEM DESIGN</td>
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<td>ADVANCED LEADERSHIP COMMUNICATION</td>
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<td>ENACTING LEADERSHIP: SHAKESPEARE &amp; PERFORMANCE</td>
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<td>SOCIAL MEDIA MANAGEMENT: PERSUASION IN NETWORKED CULTURE</td>
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<td>COMMUNICATING WITH DATA</td>
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<td>15.310</td>
<td>PEOPLE, TEAMS, AND ORGANIZATIONS</td>
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<td>15.318</td>
<td>DISCOVERING YOUR LEADERSHIP SIGNATURE</td>
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15.321 IMPROVISATIONAL LEADERSHIP: IN-THE-MOMENT LEADERSHIP SKILLS  
6 CREDITS | ELECTIVE

15.356 PRODUCT AND SERVICE DEVELOPMENT IN THE INTERNET AGE  
9 CREDITS | ELECTIVE

15.358 PLATFORM STRATEGY AND ENTREPRENEURSHIP  
9 CREDITS | FOUNDATION

15.363 STRATEGIC DECISION MAKING IN THE LIFE SCIENCES  
9 CREDITS | ELECTIVE

15.364 INNOVATION ECOSYSTEMS FOR REGIONAL ENTREPRENEURSHIP ACCELERATION LEADERS (IECO4REAL)  
9 CREDITS | FOUNDATION

15.366 ENERGY Ventures  
12 CREDITS | ELECTIVE

15.367 HEALTHCARE Ventures  
12 CREDITS | ELECTIVE

15.369 SEMINAR IN CORPORATE ENTREPRENEURSHIP  
9 CREDITS | ELECTIVE

15.372 EXPERIMENTAL INNOVATION LAB  
9 CREDITS | ELECTIVE

15.375 DEVELOPMENT Ventures  
12 CREDITS | ELECTIVE

15.376 MEDIA Ventures  
9 CREDITS | ELECTIVE

15.378 BUILDING AN ENTREPRENEURIAL VENTURE: ADVANCED TOOLS AND TECHNIQUES  
12 CREDITS | ELECTIVE

15.385 INNOVATING FOR IMPACT  
12 CREDITS | ELECTIVE

15.386 LEADING IN AMBIGUITY: STEERING THROUGH STRATEGIC INFLECTION POINTS  
6 CREDITS | ELECTIVE
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15.458 FINANCIAL DATA SCIENCE & COMPUTING I
6 CREDITS | ELECTIVE

15.459 FINANCIAL DATA SCIENCE & COMPUTING II
6 CREDITS | ELECTIVE

15.481 FINANCIAL MARKET DYNAMICS AND HUMAN BEHAVIOR
9 CREDITS | ELECTIVE

15.497 FINTECH VENTURES
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

15.567 ECONOMICS OF INFORMATION: STRATEGY, STRUCTURE AND PRICING
6 CREDITS | ELECTIVE

15.569 LEADERSHIP LAB
15 CREDITS | FOUNDATION

15.570 DIGITAL MARKETING & SOCIAL MEDIA ANALYTICS
6 CREDITS | ELECTIVE

15.571 ENTERPRISE TRANSFORMATIONS IN THE DIGITAL ECONOMY
9 CREDITS | ELECTIVE

15.572 ANALYTICS LAB
9 CREDITS | ELECTIVE

15.615 ESSENTIAL LAW FOR BUSINESS
9 CREDITS | ELECTIVE

15.662 PEOPLE AND PROFITS: SHAPING THE FUTURE OF WORK
6 CREDITS | ELECTIVE
15.665 POWER & NEGOTIATION
9 CREDITS | FOUNDATION

15.669 STRATEGIES FOR PEOPLE ANALYTICS
6 CREDITS | ELECTIVE

15.677 URBAN LABOR MARKETS AND EMPLOYMENT POLICY
12 CREDITS | ELECTIVE

15.678 POLITICAL ECONOMY I: THEORIES OF THE STATE AND THE ECONOMY
12 CREDITS | ELECTIVE

15.761 INTRODUCTION TO OPERATIONS MANAGEMENT
9 CREDITS | FOUNDATION

15.764 THEORY OF OPERATIONS MANAGEMENT
12 CREDITS | ELECTIVE

15.768 MANAGEMENT OF SERVICES: CONCEPTS, DESIGN, AND DELIVERY
9 CREDITS | FOUNDATION

15.769 OPERATIONS STRATEGY
9 CREDITS | ELECTIVE

15.774 THE ANALYTICS OF OPERATIONS MANAGEMENT
12 CREDITS | FOUNDATION

15.775 ANALYTICS PROSEMINAR
3 CREDITS | ELECTIVE

15.779 TECHNOLOGY, DESIGN & ENTREPRENEURSHIP: OPERATING IN EMERGING COMMUNITIES
6 CREDITS | ELECTIVE

15.784 OPERATIONS LAB
9 CREDITS | ELECTIVE

15.785 DIGITAL PRODUCT MANAGEMENT
6 CREDITS | ELECTIVE

15.795 BEHAVIORAL DECISION THEORIES & APPLICATIONS
12 CREDITS | FOUNDATION

15.814 MARKETING INNOVATION
9 CREDITS | FOUNDATION
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15.910 INNOVATION STRATEGY
6 CREDITS | FOUNDATION

15.911 ENTREPRENEURIAL STRATEGY
9 CREDITS | FOUNDATION

15.912 STRATEGIC MANAGEMENT OF INNOVATION & ENTREPRENEURSHIP
6 CREDITS | FOUNDATION

15.913 STRATEGIES FOR SUSTAINABLE BUSINESS
6 CREDITS | FOUNDATION

15.914 COMPETITIVE DYNAMICS AND STRATEGY
9 CREDITS | FOUNDATION

15.915 LABORATORY FOR SUSTAINABLE BUSINESS
12 CREDITS | ELECTIVE

15.933 STRATEGIC OPPORTUNITIES IN ENERGY
6 CREDITS | ELECTIVE
SPLIT ENGINEERING AND MANAGEMENT COURSES

6.928[J] LEADING CREATIVE TEAMS
9 CREDITS | ELECTIVE

15.017[J] ENGINEERING, ECONOMICS AND REGULATION FOR ENERGY ACCESS IN DEVELOPING COUNTRIES
12 CREDITS | ELECTIVE

15.032[J] ENGINEERING, ECONOMICS AND REGULATION OF THE ELECTRIC POWER SECTOR
12 CREDITS | ELECTIVE

15.054 [J] THE AIRLINE INDUSTRY
12 CREDITS | ELECTIVE

15.062[J] DATA MINING: FINDING THE MODELS AND PREDICTIONS THAT CREATE VALUE
6 CREDITS | ELECTIVE

15.093[J] OPTIMIZATION METHODS
12 CREDITS | DEPTH/FOUNDATION

15.066[J] SYSTEM OPTIMIZATION AND ANALYSIS FOR OPERATIONS
12 CREDITS | ELECTIVE

15.070[J] DISCRETE PROBABILITY AND STOCHASTIC PROCESSES
12 CREDITS | ELECTIVE

15.077[J] STATISTICAL LEARNING AND DATA MINING
12 CREDITS | ELECTIVE

15.081[J] INTRODUCTION TO MATHEMATICAL PROGRAMMING
12 CREDITS | ELECTIVE

15.084[J] NONLINEAR OPTIMIZATION
12 CREDITS | ELECTIVE

15.085[J] FUNDAMENTALS OF PROBABILITY
12 CREDITS | ELECTIVE

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

15.136[J] PRINCIPLES AND PRACTICE OF DRUG DEVELOPMENT
9 CREDITS | ELECTIVE
15.371[J] INNOVATION TEAMS
12 CREDITS | ELECTIVE

15.428[J] TOOLS FOR ANALYSIS: DESIGN FOR REAL ESTATE AND INFRASTRUCTURE DEVELOPMENT
6 CREDITS | ELECTIVE

15.480[J] SCIENCE AND BUSINESS OF BIOTECHNOLOGY
9 CREDITS | ELECTIVE

15.565[J] DIGITAL EVOLUTION: MANAGING WEB 3.0
9 CREDITS | ELECTIVE

15.657[J] TECHNOLOGY, GLOBALIZATION, AND SUSTAINABLE DEVELOPMENT
12 CREDITS | ELECTIVE

15.762[J] SUPPLY CHAIN PLANNING
6 CREDITS | DEPTH/FOUNDATION

15.763[J] MANUFACTURING SYSTEM AND SUPPLY CHAIN DESIGN
6 CREDITS | DEPTH/FOUNDATION

15.765[J] GLOBAL SUPPLY CHAIN MANAGEMENT
6 CREDITS | ELECTIVE

15.770[J] LOGISTICS SYSTEMS
12 CREDITS | ELECTIVE

15.783[J] PRODUCT DESIGN AND DEVELOPMENT
12 CREDITS | ELECTIVE

16.855[J] SYSTEMS ARCHITECTING APPLIED TO ENTERPRISES
12 CREDITS | ELECTIVE

EM.425 ADVANCED PRACTICES AND RESEARCH IN ENGINEERING PROJECT MANAGEMENT
6 CREDITS | ELECTIVE

EM.427[J] TECHNOLOGY ROADMAPPING AND DEVELOPMENT
12 CREDITS | ELECTIVE

EM.451 INTERNSHIP EXPERIENCE
1 CREDIT | ELECTIVE

SCM.290 SUSTAINABLE SUPPLY CHAIN MANAGEMENT
6 CREDITS | ELECTIVE