

SHORT PROGRAMS 2012 COURSE SCHEDULE

Learn from experts at MIT this summer.

Advance your career and impact your company's success in 2012 by making a strategic investment in training and education. Register for a 2–5 day intensive course and access world-class thinking, acquire new skills, and bring innovative ideas back to work. Earn CEUs and a certificate of completion.

JUNE COURSES *Schedule/fees subject to change without notice*

COURSE	TOPIC CATEGORY	LEAD INSTRUCTOR(S)	DATE	FEES
Advanced Mechanical Design and Manufacturing	Mechanical Design & Engineering	Martin Culpepper	June 11-15	\$3,500
Design of Motors, Generators, and Drive Systems	Energy/Sustainability/Transportation	James Kirtley, Steven Leeb	June 11-15	\$3,350
Discrete Choice Analysis: Predicting Demand and Market Shares	Data Modeling & Analysis	Moshe Ben-Akiva	June 11-15	\$3,900
Energy, Sustainability, and Life Cycle Assessment	Manufacturing	Timothy Gutowski	June 11-13	\$2,250
Nuclear Plant Safety	Energy/Sustainability/Transportation	Mujid Kazimi, Neil Todreas	June 11-15	\$3,200
High-Speed Imaging for Motion Analysis: Systems and Techniques	High-Speed Imaging	James Bales and Edgerton Center Staff	June 18-21	\$2,400
Innovations in Personal Urban Mobility	Energy/Sustainability/Transportation	Kent Larson, Ryan Chin	June 18-21	\$3,200
Leadership Skills for Engineering and Science Faculty	Leadership	Charles Leiserson, Chuck McVinney	June 18-19	\$1,600
Radical Innovation	Innovation	Sanjay Sarma	June 18-20	\$2,500
The Future of Vehicular Transportation: Propulsion, Fuels, and Emissions	Energy/Sustainability/Transportation	John Heywood, Wai K. Cheng	June 18-22	\$3,000
Analytics for S&OP and Network Design	Supply Chain	Jeremy Shapiro	June 25-29	\$3,750
NEW Applied Cyber Security	Computing & Security	John R. Williams, Abel Sanchez	June 25-26	\$1,800
Build a Small Radar System	Radar	Michael Watts, Bradley Perry	June 25-29	\$3,400
Flow Chemistry: Continuous Synthesis and Purification of Pharmaceuticals and Fine Chemicals	Biotechnology/Pharmaceutical	Klavs Jensen, Timothy Jamison	June 25-27	\$2,200
Modern Manufacturing Systems and Technology	Manufacturing	Brian Anthony, David Hardt	June 25-27	\$2,310
Tribology: Friction, Wear, and Lubrication	Mechanical Design & Engineering	Nannaji Saka	June 25-29	\$3,000

Visit our website to view the entire summer course schedule, course information, and application forms.

VISIT: <http://shortprograms.mit.edu> **EMAIL:** shortprograms@mit.edu



JULY COURSES

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COURSE	TOPIC CATEGORY	LEAD INSTRUCTOR(S)	DATE	FEES
Controlled Release Technology: Polymeric Delivery Systems for Pharmaceuticals, Proteins, and Other Agents	Biotechnology/ Pharmaceutical	Robert Langer	July 9–13	\$3,250
Design and Analysis of Experiments	Data Modeling & Analysis	Paul Berger	July 9–13	\$3,100
Formulation and Stabilization of Biotherapeutics	Biotechnology/ Pharmaceutical	Bernhardt Trout, Mark Manning	July 9–11	\$2,200
From Technology to Innovation: Putting Ideas to Work	Innovation	Sanford Weiner, James Womack	July 9–12	\$3,600
Sustainability: Principles and Practice	Energy/Sustainability/ Transportation	Noelle Eckley Selin	July 9–13	\$3,000
NEW Build a Laser Radar: Design Principles, Technologies, and Applications	Radar	Jeffrey Shapiro, Kevin Holman	July 16–20	\$4,250
Nanomaterials for Biological and Pharmaceutical Technologies	Biotechnology/ Pharmaceutical	T. Alan Hatton	July 16–20	\$3,200
Principles of Enterprise Transformation	Lean Enterprise	Deborah Nightingale, Jayakanth Srinivasan	July 16–17	\$1,800
Carbon Capture and Storage: Science, Technology, and Policy	Energy/Sustainability/ Transportation	Ruben Juanes, Howard Herzog	July 23–25	\$2,250
Challenges of Leadership in Teams	Leadership	Clark Colton, Bonnie Burrell	July 23–27	\$4,600
Crisis Management and Business Continuity	Crisis Management	Richard Larson, Steve Goldman	July 23–27	\$3,000
Data and Models in Engineering, Science, and Business	Data Modeling & Analysis	Dale Morgan	July 23–27	\$3,500
Solar Energy: Capturing the Sun	Energy/Sustainability/ Transportation	Daniel Nocera	July 23–27	\$3,500
Systems Engineering, Architecture, and Lifecycle Design: Principles, Models, Tools, and Applications	Systems Engineering	Edward Crawley, Dov Dori	July 23–27	\$3,950
Architecting the Future Enterprise	Lean Enterprise	Donna Rhodes, Deborah Nightingale	July 30– August 1	\$2,500
NEW Decision-Making, Design, and Strategy Under Uncertainty	Systems Engineering	Mort Webster	July 30– August 3	\$3,500
Fermentation Technology	Biotechnology/ Pharmaceutical	Daniel I. C. Wang, Kristala Jones Prather	July 30– August 3	\$3,950
Product Platform and Product Family Design: From Strategy to Implementation	Systems Engineering	Olivier de Weck, Timothy Simpson	July 30– August 2	\$3,600

AUGUST COURSES

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COURSE	TOPIC CATEGORY	LEAD INSTRUCTOR(S)	DATE	FEES
NEW Build a Small Phased Array Radar Sensor	Radar	Michael Watts, Bradley Perry	August 6–10	\$3,700
Cryptography and Computer Security	Computing & Security	Shafi Goldwasser, Mihir Bellare	August 6–10	\$3,500
Downstream Processing	Biotechnology/ Pharmaceutical	Charles Cooney	August 6–10	\$3,950
Modeling and Simulation of Transportation Networks	Energy/Sustainability/ Transportation	Moshe Ben-Akiva	August 6–10	\$2,900