DATA, SYSTEMS, AND SOCIETY (IDS)

IDS.012[J] Statistics, Computation and Applications
Same subject as 6.419[J]
Subject meets with 6.439[J], IDS.131[J]
Prereq: ((2.087, 6.0002, 6.01, 18.03, or 18.06) and (6.008, 6.041, 14.30, 16.09, or 18.05)) or permission of instructor
U (Spring)
3-1-8 units

Hands-on analysis of data demonstrates the interplay between statistics and computation. Includes four modules, each centered on a specific data set, and introduced by a domain expert. Provides instruction in specific, relevant analysis methods and corresponding algorithmic aspects. Potential modules may include medical data, gene regulation, social networks, finance data (time series), traffic, transportation, weather forecasting, policy, or industrial web applications. Projects address a large-scale data analysis question. Students taking graduate version complete additional assignments. Enrollment limited; priority to Statistics and Data Science minors, and to juniors and seniors.
C. Uhler, S. Jegelka

IDS.013[J] Statistical Thinking and Data Analysis
Same subject as 15.075[J]
Prereq: 6.041B or 15.0791
U (Spring)
3-1-8 units. Institute LAB
Credit cannot also be received for 18.650[J], 18.6501, IDS.014[J]

See description under subject 15.075[J].
R. Mazumder

IDS.014[J] Fundamentals of Statistics
Same subject as 18.650[J]
Subject meets with 18.6501
Prereq: 6.041 or 18.600
U (Fall, Spring)
4-0-8 units
Credit cannot also be received for 15.075[J], IDS.013[J]

See description under subject 18.650[J].
Fall: P. Rigollet. Spring: T. Maunu

IDS.015[J] System Safety
Same subject as 16.63[J]
Prereq: None
U (Fall)
Not offered regularly; consult department
3-0-9 units. REST

See description under subject 16.63[J].
N. Leveson

IDS.055[J] Science, Technology, and Public Policy
Same subject as 17.309[J], STS.082[J]
Prereq: None
U (Spring)
4-0-8 units. HASS-S; CI-H
Credit cannot also be received for 17.310[J], IDS.412[J], STS.482[J]

See description under subject 17.309[J].
K. Oye, N. Selin

IDS.060[J] Environmental Law, Policy, and Economics: Pollution Prevention and Control
Same subject as 1.801[J], 11.021[J], 17.393[J]
Subject meets with 1.811[J], 11.630[J], 15.663[J], IDS.540[J]
Prereq: None
U (Spring)
3-0-9 units. HASS-S

Reviews and analyzes federal and state regulation of air and water pollution, hazardous waste, green-house gas emissions, and the production and use of toxic chemicals. Analyzes pollution as an economic problem and the failure of markets. Explores the role of science and economics in legal decisions. Emphasizes use of legal mechanisms and alternative approaches (such as economic incentives and voluntary approaches) to control pollution and encourage chemical accident and pollution prevention. Focuses on the major federal legislation, the underlying administrative system, and the common law in analyzing environmental policy, economic consequences, and the role of the courts. Discusses classical pollutants and toxic industrial chemicals, green-house gas emissions, community right-to-know, and environmental justice. Develops basic legal skills: how to read/understand cases, regulations, and statutes. Students taking graduate version are expected to explore the subject in greater depth.
N. Ashford, C. Caldart
IDS.061[J] Regulation of Chemicals, Radiation, and Biotechnology
Same subject as 1.802[J], 11.022[J]
Subject meets with 1.812[J], 10.805[J], 11.631[J], IDS.436[J], IDS.541[J]
Prereq: IDS.060[J] or permission of instructor
U (Spring)
Not offered regularly; consult department
3-0-9 units
Focuses on policy design and evaluation in the regulation of hazardous substances and processes. Includes risk assessment, industrial chemicals, pesticides, food contaminants, pharmaceuticals, radiation and radioactive wastes, product safety, workplace hazards, indoor air pollution, biotechnology, victims' compensation, and administrative law. Health and economic consequences of regulation, as well as its potential to spur technological change, are discussed for each regulatory regime. Students taking the graduate version are expected to explore the subject in greater depth.
N. Ashford, C. Caldart

IDS.062[J] Global Environmental Negotiations
Same subject as 12.346[J]
Subject meets with 12.846[J], IDS.525[J]
Prereq: Permission of instructor
U (Fall)
Not offered regularly; consult department
2-0-4 units
Practical introduction to global environmental negotiations designed for science and engineering students. Covers basic issues in international negotiations, such as North-South conflict, implementation and compliance, trade, and historical perspective on global environmental treaties. Offers hands-on practice in developing and interpreting international agreements through role-play simulations and observation of ongoing climate change negotiating processes. Students taking graduate version complete additional assignments.
N. E. Selin

IDS.063[J] People and the Planet: Environmental Governance and Science
Same subject as 12.387[J], 15.874[J]
Prereq: None
U (Fall)
3-0-6 units
See description under subject 12.387[J].
N. Selin, S. Solomon, J. Sterman

IDS.064 Engineering, Economics and Regulation of the Electric Power Sector
Subject meets with 6.695[J], 15.032[J], IDS.505[J]
Prereq: 14.01, 22.081[J], IDS.060[J], or permission of instructor
Acad Year 2020-2021: Not offered
Acad Year 2021-2022: U (Spring)
3-0-9 units
Provides an in-depth and interdisciplinary look at electric power systems, focusing on regulation as the link among engineering, economic, legal, and environmental viewpoints. Topics include electricity markets, incentive regulation of network utilities, retail competition, tariff design, distributed generation, rural electrification, multinational electricity markets, environmental impacts, and the future of utilities and strategic sustainability issues under both traditional and competitive regulatory frameworks. Background in policy, microeconomics, or engineering desirable. Students taking graduate version complete additional assignments.
I. Perez-Arriaga

IDS.131[J] Statistics, Computation and Applications
Same subject as 6.439[J]
Subject meets with 6.419[J], IDS.012[J]
Prereq: ((2.087, 6.0002, 6.01, 18.03, or 18.06) and (6.008, 6.041, 14.30, 16.09, or 18.05)) or permission of instructor
G (Spring)
3-1-8 units
Hands-on analysis of data demonstrates the interplay between statistics and computation. Includes four modules, each centered on a specific data set, and introduced by a domain expert. Provides instruction in specific, relevant analysis methods and corresponding algorithmic aspects. Potential modules may include medical data, gene regulation, social networks, finance data (time series), traffic, transportation, weather forecasting, policy, or industrial web applications. Projects address a large-scale data analysis question. Students taking graduate version complete additional assignments. Limited enrollment; priority to Statistics and Data Science minors and to juniors and seniors.
C. Uhler, S. Jegelka
Same subject as 6.244[J]
Prereq: 6.431 and 18.06
Acad Year 2020-2021: Not offered
Acad Year 2021-2022: G (Spring)
3-0-9 units

Provides instruction in the geometric, algebraic and combinatorial perspective on graphical models. Presents methods for learning the underlying graph and inferring its parameters. Topics include exponential families, duality theory, conic duality, polyhedral geometry, undirected graphical models, Bayesian networks, Markov properties, total positivity of distributions, hidden variables, and tensor decompositions.

C. Uhler

IDS.145[J] Data Mining: Finding the Models and Predictions that Create Value
Same subject as 15.062[J]
Subject meets with 15.0621
Prereq: 15.060, 15.075[J], or permission of instructor
G (Fall; second half of term)
2-0-4 units

See description under subject 15.062[J].

R. E. Welsch

IDS.147[J] Statistical Machine Learning and Data Science
Same subject as 15.077[J]
Prereq: Permission of instructor
G (Spring)
4-0-8 units

See description under subject 15.077[J].

R. E. Welsch

Same subject as 9.521[J], 18.656[J]
Prereq: (6.436[J], 18.06, and 18.6501) or permission of instructor
G (Spring)
3-0-9 units

See description under subject 9.521[J].
S. Rakhlin, P. Rigollet

IDS.190 Doctoral Seminar in Statistics and Data Science
Prereq: None
G (Fall)
1-0-2 units

Interdisciplinary seminar explores diverse topics in statistics and data science. Restricted to students in the Interdisciplinary Doctoral Program in Statistics.

Consult D. Shah

IDS.200[J] Optimization Methods
Same subject as 6.255[J], 15.093[J]
Subject meets with 6.215
Prereq: 18.06
G (Fall)
4-0-8 units

See description under subject 15.093[J].

D. Bertsimas, P. Parrilo

Same subject as 1.271[J], 15.764[J]
Prereq: (6.436[J] and (6.251[J] or 6.251[J])) or permission of instructor
G (Spring)
3-0-9 units

Can be repeated for credit.

See description under subject 15.764[J].

D. Simchi-Levi, N. Trichakis, K. Zheng

IDS.305[J] Business and Operations Analytics
Same subject as 1.275[J]
Prereq: Permission of instructor
G (Spring; first half of term)
2-0-4 units

Provides instruction on identifying, evaluating, and capturing business analytics opportunities that create value. Also provides basic instruction in analytics methods and case study analysis of organizations that successfully deployed these techniques.

D. Simchi-Levi
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Units</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>IDS.330</td>
<td><strong>Real Options for Product and Systems Design</strong></td>
<td>Prereq: IDS.333 or permission of instructor</td>
<td>3-0-3</td>
<td>Focuses on implementation of flexibility (real options) in the design of products and systems. Applies the methods presented in IDS.333: recognition of uncertainty, identification of best opportunities for flexibility, and valuation of these options and their effective implementation. Students' work culminates in a dynamic business plan for design and deployment of products, start-ups, ongoing management of operations, or policy plans. Students bring their own project concept, which they will analyze during the class. Useful complement to thesis or research projects. R. de Neufville</td>
</tr>
<tr>
<td>IDS.332</td>
<td><strong>Engineering Systems Analysis for Design</strong></td>
<td>Engineering School-Wide Elective Subject.</td>
<td>3-0-9</td>
<td>Practical-oriented subject that builds upon theory and methods and culminates in extended application. Covers methods to identify, value, and implement flexibility in design (real options). Topics include definition of uncertainties, simulation of performance for scenarios, screening models to identify desirable flexibility, decision analysis, and multidimensional economic evaluation. Students demonstrate proficiency through an extended application to a system design of their choice. Complements research or thesis projects. Meets with IDS.333 first half of term. Enrollment limited. R. de Neufville</td>
</tr>
<tr>
<td>IDS.333</td>
<td><strong>Risk and Decision Analysis</strong></td>
<td>Prereq: None</td>
<td>3-0-3</td>
<td>Focuses on design choices and decisions under uncertainty. Topics include identification and description of uncertainties using probability distributions; the calculation of commensurate measures of value, such as expected net present values; Monte Carlo simulation and risk analysis; and the use of decision analysis to explore alternative strategies and identify optimal initial choices. Presents applied analysis of practical examples from a variety of engineering systems using spreadsheet and decision analysis software. Meets with IDS.333 first half of term. R. de Neufville</td>
</tr>
<tr>
<td>IDS.336[J]</td>
<td><strong>Systems Architecting Applied to Enterprises</strong></td>
<td>Same subject as 16.855[J]</td>
<td>3-0-9</td>
<td>Focuses on principles and practices for architecting new and evolving sociotechnical enterprises. Includes reading and discussions of enterprise theory, contemporary challenges, and case studies of evolving enterprises. Covers frameworks and methods for ecosystem analysis, stakeholder analysis, architecture design and evaluation, and implementation strategies. Students work in small teams on projects to design a future architecture for a selected real-world enterprise. D. Rhodes</td>
</tr>
<tr>
<td>IDS.340[J]</td>
<td><strong>System Safety Concepts</strong></td>
<td>Same subject as 16.863[J]</td>
<td>3-0-9</td>
<td>See description under subject 16.863[J]. Enrollment may be limited. N. G. Leveson</td>
</tr>
</tbody>
</table>
IDS.341[J] Concepts in the Engineering of Software
Same subject as 16.355[J]
Prereq: Permission of instructor
G (Spring)
3-0-9 units
See description under subject 16.355[J]. Enrollment may be limited.
N. G. Leveson

IDS.345[J] Digital Evolution: Managing Web 3.0
Same subject as 15.565[J]
Prereq: Permission of instructor
G (Fall)
Not offered regularly; consult department
3-0-6 units
See description under subject 15.565[J].
S. Madnick

IDS.410 Modeling and Assessment for Policy
Prereq: None
G (Fall)
Not offered regularly; consult department
3-0-6 units
Explores how scientific information and quantitative models can be used to inform policy decision-making. Develops an understanding of quantitative modeling techniques and their role in the policy process through case studies and interactive activities. Addresses issues such as analysis of scientific assessment processes, uses of integrated assessment models, public perception of quantitative information, methods for dealing with uncertainties, and design choices in building policy-relevant models. Examples focus on models and information used in Earth system governance.
N. E. Selin

IDS.411 Concepts and Research in Technology and Policy
Prereq: Permission of instructor
G (Fall)
3-0-6 units
Core integrative subject, with substantive participation from a series of guest faculty lecturers, examines key technology-policy concepts. Explores alternative framings of roles of technology in policy, emphasizing the implications of these alternatives upon problem-solving in the area. Exercises prepare students to apply these concepts in the framing of their thesis research. Preference to first-year students in the Technology and Policy Program.
F. Field

IDS.412[J] Science, Technology, and Public Policy
Same subject as 17.310[J], STS.482[J]
Prereq: Permission of instructor
G (Spring)
4-0-8 units
Credit cannot also be received for 17.309[J], IDS.055[J], STS.082[J]
See description under subject 17.310[J].
K. Oye, N. Selin

IDS.435[J] Law, Technology, and Public Policy
Same subject as 15.655[J]
Prereq: None
G (Fall)
3-0-9 units
Examines the relationship between law and technological change, and the ways in which law, economics, and technological change shape public policy. Addresses how law can be used to influence and guide technological change; responses of the legal system to environmental, safety, social and ethical problems created by new or existing technology; how law and markets interact to limit or encourage technological development; and how law can affect distribution of wealth and social justice. Covers climate change; genetic engineering; telecommunications; industrial automation; the effect of health, safety, and environmental regulation on technological innovation; the impacts of intellectual property law on innovation and equity; pharmaceuticals; nanotechnology; cost/benefit analysis as a decision tool; public participation in governmental decisions affecting science and technology; corporate influence on technology; and law and economics as competing paradigms to encourage sustainability. Permission of instructor required for freshmen and sophomores.
N. Ashford, C. Caldart
Same subject as 10.805[J]
Subject meets with 1.802[J], 1.812[J], 11.022[J], 11.631[J], IDS.061[J], IDS.541[J]
Prereq: Permission of instructor
G (Spring)
Not offered regularly; consult department
3-0-6 units
Addresses relationship between technology-related problems and
the law applicable to work environment. National Labor Relations
Act, Occupational Safety and Health Act. Toxic Substances Control
Act, state worker’s compensation, and suits by workers in the courts
discussed. Problems related to occupational health and safety,
collective bargaining as a mechanism for altering technology in the
workplace, job alienation, productivity, and the organization of work
addressed. Prior courses or experience in the environmental, public
health, or law-related areas.
N. A. Ashford, C. C. Caldart

IDS.437[J] Technology, Globalization, and Sustainable
Development
Same subject as 1.813[J], 11.466[J], 15.657[J]
Prereq: Permission of instructor
G (Fall)
3-0-9 units
Investigates sustainable development, taking a broad view to include
not only a healthy economic base, but also a sound environment,
stable employment, adequate purchasing power, distributional
equity, national self-reliance, and maintenance of cultural integrity.
Explores national, multinational, and international political and
legal mechanisms to further sustainable development through
transformation of the industrial state. Addresses the importance of
technological innovation and the financial crisis of 2008.
N. Ashford

IDS.449 Technology Policy Internship and Professional
Perspectives Seminar
Prereq: IDS.411 or permission of instructor
G (Fall, Spring)
1-1-1 units
Can be repeated for credit.
Seminar examines what technology policy is in practice. Considers
the question of “Who achieves what, when, how, and why?”
regarding technology and policy. Students who completed summer
internships present and dissect their experiences with special
reference to specific cases in which they participated. Develops
perspectives on practice in the field through sessions with alumni,
other practitioners, and development professionals within MIT.
Staff

IDS.505[J] Engineering, Economics and Regulation of the Electric
Power Sector
Same subject as 6.695[J], 15.032[J]
Subject meets with IDS.064
Prereq: 14.01, 22.081[J], IDS.060[J], or permission of instructor
Acad Year 2020-2021: Not offered
Acad Year 2021-2022: G (Spring)
3-0-9 units
Provides an in-depth and interdisciplinary look at electric power
systems, focusing on regulation as the link among engineering,
economic, legal, and environmental viewpoints. Topics include
electricity markets, incentive regulation of network utilities,
retail competition, tariff design, distributed generation, rural
electrification, multinational electricity markets, environmental
impacts, and the future of utilities and strategic sustainability issues
under both traditional and competitive regulatory frameworks.
Background in policy, microeconomics, or engineering desirable.
Students taking graduate version complete additional assignments.
I. Perez-Arriaga

IDS.521 Energy Systems and Climate Change Mitigation
Prereq: Permission of instructor
G (Spring)
3-0-9 units
Reviews the contributions of energy systems to global greenhouse
gas emissions, and the levers for reducing those emissions. Lectures
and projects focus on evaluating energy systems against
climate policy goals, using performance metrics such as
cost, carbon intensity, and others. Student projects explore
pathways for realizing emissions reduction scenarios. Projects
address the climate change mitigation potential of energy
technologies, technological and behavioral change trajectories,
and technology and policy portfolios.
J. Trancik
**IDS.522 Mapping and Evaluating New Energy Technologies**  
Prereq: Permission of instructor  
G (Spring)  
3-0-9 units  
Project-based seminar covers recent developments in energy conversion and storage technologies. Merits of alternative technologies are debated based on their environmental performance and cost, and their potential improvement and scalability. Project teams develop quantitative models and interactive visualization tools to inform the future development of these technologies. Models may probe how the impact of a technology depends on assumptions about future advancements in materials or device design. Other projects may develop models for rational design choices (the selection of a particular material or processing technique) based on economic and environmental performance and physical constraints.  
*J. Trancik*

**IDS.524[J] People and the Planet: Environmental Histories and Engineering**  
Same subject as 11.204[J]  
Subject meets with 11.004[J], STS.033[J]  
Prereq: None  
Acad Year 2020-2021: Not offered  
Acad Year 2021-2022: G (Spring)  
3-3-6 units  
See description under subject 11.204[J].  
*J. Knox-Hayes, A. Slocum, R. Scheffler, J. Trancik*

**IDS.525[J] Global Environmental Negotiations**  
Same subject as 12.846[J]  
Subject meets with 12.346[J], IDS.062[J]  
Prereq: None  
G (Fall)  
Not offered regularly; consult department  
2-0-4 units  
Practical introduction to global environmental negotiations designed for science and engineering students. Covers basic issues in international negotiations, such as North-South conflict, implementation and compliance, trade, and historical perspective on global environmental treaties. Offers hands-on practice in developing and interpreting international agreements through role-play simulations and observation of ongoing climate change negotiating processes. Students taking graduate version complete additional assignments.  
*N. Selin*

**IDS.526[J] Sustainability Science and Engineering**  
Same subject as 12.845[J]  
Prereq: None  
G (Fall)  
Not offered regularly; consult department  
3-0-6 units  
Introduces and develops core ideas and concepts in the field of sustainability science and engineering from an engineering systems perspective. Takes an interdisciplinary approach to discuss case studies of sustainability systems research. Exposes students to techniques for sustainability research across engineering, natural and social science disciplines. Term projects focus on applying techniques.  
*N. E. Selin*

**IDS.540[J] Environmental Law, Policy, and Economics: Pollution Prevention and Control**  
Same subject as 1.811[J], 11.630[J], 15.663[J]  
Subject meets with 1.801[J], 11.021[J], 17.393[J], IDS.060[J]  
Prereq: None  
G (Spring)  
3-0-9 units  
Reviews and analyzes federal and state regulation of air and water pollution, hazardous waste, green-house gas emissions, and the production and use of toxic chemicals. Analyzes pollution as an economic problem and the failure of markets. Explores the role of science and economics in legal decisions. Emphasizes use of legal mechanisms and alternative approaches (such as economic incentives and voluntary approaches) to control pollution and encourage chemical accident and pollution prevention. Focuses on the major federal legislation, the underlying administrative system, and the common law in analyzing environmental policy, economic consequences, and the role of the courts. Discusses classical pollutants and toxic industrial chemicals, green-house gas emissions, community right-to-know, and environmental justice. Develops basic legal skills: how to read/understand cases, regulations, and statutes. Students taking graduate version are expected to explore the subject in greater depth.  
*N. Ashford, C. Caldart*
IDS.541[J] Regulation of Chemicals, Radiation, and Biotechnology
Same subject as 1.812[J], 11.631[J]
Subject meets with 1.802[J], 10.805[J], 11.022[J], IDS.061[J], IDS.436[J]
Prereq: IDS.540[J] or permission of instructor
G (Spring)
Not offered regularly; consult department
3-0-9 units
Focuses on policy design and evaluation in the regulation of hazardous substances and processes. Includes risk assessment, industrial chemicals, pesticides, food contaminants, pharmaceuticals, radiation and radioactive wastes, product safety, workplace hazards, indoor air pollution, biotechnology, victims' compensation, and administrative law. Health and economic consequences of regulation, as well as its potential to spur technological change, are discussed for each regulator regime. Students taking the graduate version are expected to explore the subject in greater depth.
N. Ashford, C. Caldart

IDS.620[J] Principles and Practice of Drug Development
Same subject as 10.547[J], 15.136[J], HST.920[J]
Prereq: Permission of instructor
G (Fall)
3-0-6 units
See description under subject 15.136[J].
S. Finkelstein, A. J. Sinskey, R. Rubin

IDS.670[J] Planning and Design of Airport Systems
Same subject as 1.231[J], 16.781[J]
Prereq: None
Acad Year 2020-2021: G (Fall)
Acad Year 2021-2022: Not offered
3-0-9 units
See description under subject 1.231[J].
R. de Neufville, A. R. Odoni

Same subject as 1.203[J], 15.073[J]
Prereq: 6.041B or 18.600
G (Spring)
3-0-9 units
See description under subject 15.073[J].
A. Barnett

IDS.720[J] Tools for Analysis: Design for Real Estate and Infrastructure Development
Same subject as 11.434[J], 15.428[J]
Prereq: None
G (Spring; second half of term)
2-0-4 units
See description under subject 11.434[J].
D. Geltner, R. de Neufville

IDS.730[J] Logistics Systems
Same subject as 1.260[J], 15.770[J], SCM.260[J]
Subject meets with SCM.271
Prereq: Permission of instructor
G (Fall)
3-0-9 units
See description under subject SCM.260[J].
Y. Sheffi, C. Caplice

IDS.735[J] Supply Chain Planning
Same subject as 1.273[J], 15.762[J]
Prereq: 15.761 or SCM.260[J]
G (Spring; first half of term)
2-0-4 units
See description under subject 15.762[J].
D. Simchi-Levi

IDS.736[J] Manufacturing System and Supply Chain Design
Same subject as 1.274[J], 15.763[J]
Prereq: 15.761, 15.778, or SCM.260[J]
G (Spring; second half of term)
2-0-4 units
See description under subject 15.763[J].
D. Simchi-Levi

IDS.900 Doctoral Seminar in Social and Engineering Systems
Prereq: Permission of instructor
G (Fall)
2-0-1 units
Introduces doctoral students to IDSS research areas. Preference to first-year students in SES.
A. Abadie, A. Jadbabaie
IDS.910 Leadership Development
Prereq: Permission of instructor
G (Fall; partial term)
Not offered regularly; consult department
1-1-1 units

Seminar environment created to develop leadership capabilities, and to take advantage of leadership opportunities. An initial Outward Bound experience builds trust, teamwork and communications. Readings and assignments emphasize the characteristics of desired leadership skills. Global leaders participate in the Leadership Lunch series to share their experiences and recommendations. Discussions explore leadership development. Culminates in a personal leadership plan. Restricted to entering students in the Technology and Policy program or instructor permission.

IDS.950 Independent Study in Data, Systems, and Society
Prereq: Permission of IDSS Academic Office
G (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

For graduate students in IDSS. Individual study in data, systems, and society. Intended to expose student to expert-level domain material. Supervised by a member of MIT’s teaching staff.
Consult IDSS Academic Office

IDS.951 Independent Study in Technology and Policy
Prereq: Permission of TPP Education Office
G (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

For graduate students in TPP. Individual study in technology and policy. Intended to expose student to expert-level domain material. Supervised by a member of MIT’s teaching staff.
Consult TPP Education Office

IDS.955 Practical Experience in Data, Systems, and Society
Prereq: None
G (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

For IDSS doctoral students participating in off-campus practical experiences in data, systems, and society. Before registering for this subject students must have a training offer from a company or organization, must identify a research supervisor, and must receive prior approval from the IDSS Academic Office. Upon completion of the experience students must submit a letter from the company or organization describing the goals accomplished and a substantive final report to the MIT supervisor.
Consult IDSS Academic Office

IDS.956 Practical Experience in Technology and Policy
Prereq: None
G (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]

For TPP students participating in off-campus internship experiences in technology and policy. Before registering for this subject, students must have an employment offer from a company or organization, must identify a research supervisor, and must receive prior approval from the TPP Education Office. Upon completion of the internship, student must submit a letter from the employer describing the work accomplished, along with a substantive final report from the student approved by the MIT supervisor.
Consult TPP Education Office

IDS.960 Teaching in Data, Systems, and Society
Prereq: None
G (Fall, IAP, Spring)
Units arranged [P/D/F]
Can be repeated for credit.

For Teaching Assistants in IDSS, in cases where teaching assignment is approved for academic credit. Laboratory, tutorial, or classroom teaching under supervision of a faculty member. Credit for this subject may not be used for any degree granted by IDSS.
Consult IDSS Academic Office
IDS.961 Teaching in Technology and Policy
Prereq: None
G (Fall, IAP, Spring)
Units arranged [P/D/F]
Can be repeated for credit.

For Teaching Assistants in TPP, in cases where teaching assignment is approved for academic credit. Laboratory, tutorial, or classroom teaching under supervision of a faculty member. Credit for this subject may not be used for any degree granted by IDSS.
Consult TPP Academic Office

IDS.970 Research in Data, Systems, and Society
Prereq: None
G (Fall, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

For Research Assistants in IDSS when assigned research is not used for thesis, but is approved for academic credit. Credit for this subject may not be used for any degree granted by IDSS.
Consult IDSS Academic Office

IDS.971 Research in Technology and Policy
Prereq: None
G (Fall, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

For research assistants in TPP when assigned research is not used for thesis, but is approved for academic credit. Credit for this subject may not be used for any degree granted by IDSS.
Consult TPP Academic Office

IDS.S00 Special Undergraduate Subject in Data, Systems, and Society
Prereq: Permission of instructor
U (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.
Opportunity for study of topics in Data, Systems, and Society not otherwise included in the curriculum. Offerings initiated by faculty on an ad-hoc basis subject to IDSS approval.
Consult IDSS Academic Office

IDS.S01 Special Undergraduate Subject in Data, Systems, and Society
Prereq: Permission of instructor
U (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged
Can be repeated for credit.
Opportunity for study of topics in Data, Systems, and Society not otherwise included in the curriculum at MIT. Offerings are initiated by faculty on an ad-hoc basis subject to IDSS approval.
Consult IDSS Academic Office

IDS.S10 Special Undergraduate Subject in Data, Systems, and Society
Prereq: Permission of instructor
U (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged [P/D/F]
Can be repeated for credit.
Opportunity for study of topics in Data, Systems, and Society not otherwise included in the curriculum at MIT. Offerings are initiated by faculty on an ad-hoc basis subject to IDSS approval.
Consult IDSS Academic Office

IDS.S11 Special Undergraduate Subject in Data, Systems, and Society
Prereq: None
U (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged [P/D/F]
Can be repeated for credit.
Opportunity for study of topics in Data, Systems, and Society not otherwise included in the curriculum. Offerings initiated by faculty on an ad hoc basis subject to IDSS approval.
Consult IDSS Academic Office

IDS.S20 Special Graduate Subject in Data, Systems, and Society
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged
Can be repeated for credit.
Opportunity for study of advanced topics in Data, Systems, and Society not otherwise included in the curriculum at MIT. Offerings are initiated by faculty on an ad-hoc basis subject to IDSS approval.
Consult IDSS Academic Office
IDS.S21 Special Graduate Subject in Data, Systems, and Society
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged
Can be repeated for credit.

Opportunity for study of advanced topics in Data, Systems, and Society not otherwise included in the curriculum at MIT. Offerings are initiated by faculty on an ad-hoc basis subject to IDSS approval.
Information: Consult IDSS Academic Office

IDS.S22 Special Graduate Subject in Data, Systems, and Society
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged
Can be repeated for credit.

Opportunity for study of advanced topics in Data, Systems, and Society not otherwise included in the curriculum at MIT. Offerings are initiated by faculty on an ad-hoc basis subject to IDSS approval.
Consult IDSS Academic Office

IDS.S23 Special Graduate Subject in Data, Systems, and Society
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged
Can be repeated for credit.

Opportunity for study of advanced topics in Data, Systems, and Society not otherwise included in the curriculum at MIT. Offerings are initiated by faculty on an ad-hoc basis subject to IDSS approval.
Consult IDSS Academic Office

IDS.S24 Special Graduate Subject in Data, Systems, and Society
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged
Can be repeated for credit.

Opportunity for study of advanced topics in Data, Systems, and Society not otherwise included in the curriculum at MIT. Offerings are initiated by faculty on an ad-hoc basis subject to IDSS approval.
Consult IDSS Academic Office

IDS.S30 Special Graduate Subject in Data, Systems, and Society
Prereq: None
G (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged [P/D/F]
Can be repeated for credit.

Opportunity for study of advanced topics in Data, Systems, and Society not otherwise included in the curriculum. Offerings are initiated by faculty on an ad-hoc basis subject to IDSS approval.
Staff

IDS.S31 Special Graduate Subject in Data, Systems, and Society
Prereq: None
G (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged [P/D/F]
Can be repeated for credit.

Opportunity for individual or group study of advanced topics in Data, Systems, and Society not otherwise included in the curriculum at MIT. Offerings are initiated by faculty on an ad-hoc basis subject to IDSS approval.
Consult IDSS Academic Office

IDS.S32 Special Graduate Subject in Data, Systems, and Society
Prereq: None
G (Fall, IAP, Spring, Summer)
Not offered regularly; consult department
Units arranged [P/D/F]
Can be repeated for credit.

Opportunity for individual or group study of advanced topics in Data, Systems, and Society not otherwise included in the curriculum at MIT. Offerings are initiated by faculty on an ad-hoc basis subject to IDSS approval.
Consult IDSS Academic Office

IDS.THG Graduate Thesis
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Program of research, leading to the writing of an SM or PhD thesis to be arranged by the student with a member of the IDSS faculty. A minimum of 24 thesis units are required for the SM degree.
Consult IDSS Academic Office
IDS.UR Undergraduate Research
Prereq: None
U (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

Undergraduate research opportunities in Data, Systems, and Society.

IDSS Academic Office

IDS.URG Undergraduate Research
Prereq: None
U (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Undergraduate research opportunities in Data, Systems, and Society.

Consult IDSS Academic Office