IDS.012 Statistics, Computation and Applications (New)
Subject meets with IDS.131
Prereq: 6.01, 6.0002, 18.03, 18.06, or 2.087; 6.008, 6.041B, 14.30, 16.09, or 18.05; or permission of instructor
U (Fall)
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 to 50; priority to Statistics and Data Science minors.
S. Jegelka, C. Uhler

IDS.013[J] Statistical Thinking and Data Analysis (IDS.010)
Same subject as 15.075[J]
Prereq: 6.041B or 15.079
U (Spring)
3-1-8 units. Institute LAB

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

IDS.045[J] System Safety (ESD.03)
Same subject as 16.63[J]
Prereq: None
Acad Year 2016-2017: Not offered
Acad Year 2017-2018: U (Fall)
3-0-9 units. REST

Introduces the concepts of system safety and how to analyze and design safer systems. Topics include the causes of accidents in general, and recent major accidents in particular; hazard analysis, safety-driven design techniques; design of human-automation interaction; integrating safety into the system engineering process; and managing and operating safety-critical systems.
N. Leveson

IDS.055[J] Science, Technology, and Public Policy (IDS.052)
Same subject as 17.309[J], STS.082[J]
Prereq: None
U (Fall)
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]. Limited to 18.
K. Oye

IDS.062[J] Global Environmental Negotiations (ESD.046)
Same subject as 12.346[J]
Subject meets with 12.846[J], IDS.525[J]
Prereq: Permission of instructor
U (Fall)
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.104[J] Engineering Probability and Statistics (IDS.210)
Same subject as 15.064[J]
Prereq: Calculus II (GIR)
G (Summer)
4-0-8 units

See description under subject 15.064[J]. Primarily for Leaders for Global Operations students.
A. I. Barnett, R. E. Welsch
IDS.131 Statistics, Computation and Applications (New)
Subject meets with IDS.012
Prereq: 6.01, 6.0002, 18.03, 18.06, or 2.087; 6.008, 6.041B, 14.30, 16.09, or 18.05; or permission of instructor
G (Fall)
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 to 50.
S. Jegelka, C. Uhler

IDS.145[J] Data Mining: Finding the Data and Models that Create Value (IDS.212)
Same subject as 15.062[J]
Subject meets with 15.0621
Prereq: 15.060 or 15.075[J]
G (Fall; second half of term)
2-0-4 units

See description under subject 15.062[J].
R. E. Welsch

IDS.146[J] Predictive Data Analytics and Statistical Modeling (IDS.213)
Same subject as 15.074[J]
Prereq: 6.431B, 15.060, or permission of instructor
Acad Year 2016-2017: Not offered
Acad Year 2017-2018: G (Spring)
4-0-5 units
Credit cannot also be received for 15.0741

See description under subject 15.074[J].
R. E. Welsch

IDS.147[J] Statistical Learning and Data Mining (IDS.211)
Same subject as 15.077[J]
Prereq: 6.431B, 15.085[J], or 18.600; 18.06 or 18.700
Acad Year 2016-2017: Not offered
Acad Year 2017-2018: G (Spring)
4-0-8 units

See description under subject 15.077[J].
R. E. Welsch

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

See description under subject 15.093[J].
D. Bertsimas, P. Parrilo

IDS.250[J] The Theory of Operations Management (IDS.155)
Same subject as 1.271[J], 15.764[J]
Prereq: 15.081[J] or 6.251[J], 6.436[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 (ESD.762)
Same subject as 1.275[J]
Prereq: Permission of instructor
Acad Year 2016-2017: Not offered
Acad Year 2017-2018: 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

IDS.330 Real Options for Product and Systems Design (ESD.344)
Prereq: None
G (Spring; second half of term)
3-0-3 units

Studies the theory and practice of implementing flexibility (real options) in the design of products and systems. Topics include recognition of uncertainty, identification of best opportunities for flexibility, and valuation of these options and their effective implementation. Enables effective and efficient adaptation to future changes. Students apply the concepts by working in teams on an ongoing product development project. Final product is an advanced, dynamic business plan for design and deployment of products.
R. de Neufville
**IDS.332 Engineering Systems Analysis for Design (IDS.162)**  
Engineering School-Wide Elective Subject.  
Offered under: 1.146, 16.861, IDS.332  
Subject meets with IDS.333  
Prereq: Permission of instructor  
G (Fall)  
3-0-9 units  
Covers theory and methods to identify, value, and implement flexibility in design, also known as "real options." Topics include definition of uncertainties, simulation of performance for scenarios, screening models to identify desirable flexibility, decision and lattice analysis, and multidimensional economic evaluation. Students demonstrate proficiency through an extended application to a systems design of their choice. Provides a complement to research or thesis projects. Meets with IDS.333 first half of term.  
*R. de Neufville*

**IDS.333 Risk and Decision Analysis (IDS.163)**  
Subject meets with 1.146[J], 16.861[J], IDS.332[J]  
Prereq: None  
G (Fall; first half of term)  
3-0-3 units  
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. Applied analysis of practical examples from a variety of engineering systems using spreadsheet and decision analysis software.  
*R. de Neufville*

**IDS.336[J] Systems Architecting Applied to Enterprises (ESD.38)**  
Same subject as 16.855[J]  
Prereq: Permission of instructor  
G (Spring)  
3-0-9 units  
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*

**IDS.337[J] Aerospace Biomedical and Life Support Engineering (IDS.940)**  
Same subject as 16.423[J], HST.515[J]  
Prereq: 16.400, 16.06, or permission of instructor  
Acad Year 2016-2017: G (Spring)  
Acad Year 2017-2018: Not offered  
3-1-8 units  
See description under subject 16.423[J].  
*D. J. Newman*

Same subject as 16.888[J]  
Prereq: 18.085 or permission of instructor  
Acad Year 2016-2017: Not offered  
Acad Year 2017-2018: G (Spring)  
3-1-8 units  
*O. de Weck, K. E. Willcox*

**IDS.339[J] Space Systems Engineering (New)**  
Same subject as 16.89[J]  
Prereq: 16.851 or permission of instructor  
Acad Year 2016-2017: Not offered  
Acad Year 2017-2018: G (Spring)  
4-2-6 units  
See description under subject 16.89[J].  
*O. de Weck*

Same subject as 16.863[J]  
Prereq: Permission of instructor  
G (Fall)  
3-0-9 units  
See description under subject 16.863[J].  
*N. G. Leveson*
Same subject as 16.355[J]
Prereq: Permission of instructor
G (Spring)
3-0-9 units
See description under subject 16.355[J].
N. G. Leveson

IDS.345[J] Digital Evolution: Managing Web 3.0 (IDS.610)
Same subject as 15.565[J]
Prereq: Permission of instructor
G (Fall)
3-0-6 units
See description under subject 15.565[J].
S. Madnick

IDS.410[J] Modeling and Assessment for Policy (ESD.864)
Same subject as 12.844[J]
Prereq: None
G (Spring)
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 (ESD.101)
Prereq: IDS.412[J], permission of instructor
G (Spring)
2-0-4 units
Focusing on technology and policy, explores the nature of engineering knowledge (as distinct from scientific knowledge), as well as the role of engineering systems in framing of problems. Considers implications of these concepts in the framing of research questions. Exercises aim to 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 (IDS.401)
Same subject as 17.310[J], STS.482[J]
Prereq: Permission of instructor
G (Fall)
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

IDS.430[J] Environmental Law, Policy, and Economics: Pollution Prevention and Control (New)
Same subject as 1.811[J], 11.630[J]
Subject meets with 1.801[J], 11.021[J], 17.393[J]
Prereq: Permission of instructor for undergraduates
G (Fall)
3-0-9 units
Credit cannot also be received for 15.663
See description under subject 1.811[J].
N. Ashford, C. Caldart

IDS.431[J] Regulation of Chemicals, Radiation, and Biotechnology (New)
Same subject as 1.812[J], 11.631[J]
Subject meets with 1.802[J], 10.805[J], 11.022[J], IDS.436[J]
Prereq: 1.811[J] or permission of instructor
G (Spring)
Not offered regularly; consult department
3-0-9 units
See description under subject 1.812[J].
N. Ashford, C. Caldart
IDS.435 Law, Technology, and Public Policy (ESD.132)
Prereq: Permission of instructor
G (Spring)
3-0-9 units
Examination of the relationship between law and technological change, and the ways in which law, economics, and technological change shape public policy. Areas addressed include 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 the distribution of wealth and social justice. Topics covered include 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], 11.631[J], IDS.431[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 (ESD.137)
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.440 Seminar in Technology Policy Research (ESD.80)
Prereq: IDS.411
G (Spring)
2-0-1 units
Presentations by students, faculty and guest speakers of ongoing research related to current issues in technology and policy. Specific topics determined by research of participants and by new and important directions in technology and policy.
J. Clark

IDS.449 Technology Policy Internship Seminar (ESD.811)
Prereq: IDS.411 or permission of instructor
G (Fall)
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 policy. Students who completed summer internships present and dissect their experiences with special reference to specific cases in which they participated.
F. Field
IDS.505[J] Engineering, Economics and Regulation of the Electric Power Sector (ESD.162)
Same subject as 6.695[J], 15.032[J]
Prereq: Permission of instructor
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, future of utilities and strategic sustainability issues under both traditional and competitive regulatory frameworks. Background in policy, microeconomics, or engineering desirable.
C. Vergara

IDS.521 Energy Systems and Climate Change Mitigation (ESD.124)
Prereq: Permission of instructor
G (Spring)
3-0-9 units
Explores the contributions of energy systems to global greenhouse gas emissions and the potential levers for reducing emissions. Lectures and projects focus on decomposing contributions to greenhouse gas emissions, with emphasis on technology related variables such as per unit cost and carbon intensity of energy. Reviews other performance attributes of energy technologies. Student projects explore pathways for realizing emissions reduction scenarios.
J. Trancik

IDS.522 Mapping and Evaluating New Energy Technologies (ESD.125)
Prereq: Permission of instructor
G (Fall)
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.525[J] Global Environmental Negotiations (IDS.420)
Same subject as 12.846[J]
Subject meets with 12.346[J], IDS.062[J]
Prereq: None
G (Fall)
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 (ESD.120)
Same subject as 12.845[J]
Prereq: None
Acad Year 2016-2017: Not offered
Acad Year 2017-2018: G (Fall)
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.620[J] Principles and Practice of Drug Development (New)
Same subject as 7.547[J], 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].
T. J. Allen, C. L. Cooney, S. N. Finkelstein, A. J. Sinskey, G. K. Raju

IDS.670[J] Planning and Design of Airport Systems (New)
Same subject as 1.231[J], 16.781[J]
Prereq: Permission of instructor
Acad Year 2016-2017: G (Fall)
Acad Year 2017-2018: Not offered
3-0-9 units
See description under subject 1.231[J].
R. de Neufville, A. R. Odoni
IDS.720[J] Tools for Analysis: Design for Real Estate and Infrastructure Development (IDS.671)
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 (New)
Same subject as 1.260[J], 15.770[J], SCM.260[J]
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 (IDS.150)
Same subject as 1.273[J], 15.762[J]
Prereq: 1.260[J] or 15.761
G (Spring)
2-0-4 units
See description under subject 15.762[J].
Staff

IDS.736[J] Manufacturing System and Supply Chain Design (IDS.151)
Same subject as 1.274[J], 15.763[J]
Prereq: 1.260[J], 15.761, or 15.778
G (Spring)
2-0-4 units
See description under subject 15.763[J].
S. C. Graves, D. Simchi-Levi

IDS.900 Doctoral Seminar in Social and Engineering Systems (ESD.83)
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. Jadabaia

IDS.910 Leadership Development (ESD.801)
Prereq: Permission of instructor
G (Fall; partial term)
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.
B. Moser

IDS.950 Independent Study in Data, Systems, and Society (New)
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 research in data, systems, and society: generally either study, fieldwork, or practicum. 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 (New)
Prereq: Permission of TPP Academic Office.
G (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.
For graduate students in TPP. Individual research in technology and policy: generally either study, fieldwork, or practicum. Intended to expose student to expert-level domain material. Supervised by a member of MIT’s teaching staff. Consult TPP Academic Office

IDS.960 Teaching in Data, Systems, and Society (ESD.921)
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 (New)
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 (ESD.915)
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 (ESD.910)
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 (New)
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 (ESD.S01)
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 (ESD.S10)
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 (New)
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 (ESD.S20)
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 (ESD.S21)
Prereq: Permission of instructor
G (Spring)
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: C. Uhler, E. Robeva

IDS.S22 Special Graduate Subject in Data, Systems, and Society (ESD.S22)
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 (ESD.S23)
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 (ESD.S24)
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 (ESD.S30)
Prereq: None
G (Fall)
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. J. Liu

IDS.S31 Special Graduate Subject in Data, Systems, and Society (ESD.S31)
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 (ESD.S32)
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 (New)
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.URG Undergraduate Research (ESD.URG)
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