

INFORMATION STUDIES (IST)

IST 100 Selected Topics (1-6 Credits)

Information Studies

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. Repeatable

IST 101 First-Year Forum (1 Credit)

Information Studies

Transition to life at the iSchool and Syracuse University, and become more familiar with the information field. Explore the range of possibilities that our undergraduate degree is designed to provide.

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 180 International Course (1-12 Credits)

Information Studies

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the SU academic department to assign the appropriate course level, title, and grade for the student's transcript.

Repeatable 3 times for 12 credits maximum

IST 195 Information Technologies (3 Credits)

Information Studies

State-of-the-art technologies in the field. Computer architectures, telecommunication networks, software design and application. Issues in information management and technology use.

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 200 Selected Topics (1-6 Credits)

Information Studies

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. Repeatable

IST 233 Introduction to Networks and Cloud Computing (3 Credits)

Information Studies

Overview of technology, standards, implementation and management of digital computer networks. Wired and wireless local and wide area networks, Internet protocols, telecommunications, and network security. Includes weekly labs.

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 256 Introduction to Python for the Information Profession (3 Credits)

Information Studies

Computational literacy and learning to code are critical skills of the 21st century. Students are introduced to Python programming language with emphasis on practical applications relevant to everyday lives and common within the information field.

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 263 Introduction to Front-End Web Development (3 Credits)

Information Studies

Learn to create a website from scratch with HTML, CSS and JavaScript. Topics like responding to different screen sizes, accessibility and layout will be covered. We also examine the project management side of the web with wireframes, site maps, copy documents, and more.

Shared Competencies: Communication Skills (<https://coursecatalog.syracuse.edu/shared-competencies/communication-skills/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 280 International Course (1-12 Credits)

Information Studies

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript.

Repeatable

IST 290 Independent Study (1-6 Credits)

Information Studies

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department.

Repeatable

IST 300 Selected Topics (1-6 Credits)

Information Studies

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. Repeatable

IST 305 Globalization, Collaboration, Culture, Systems & Data (3 Credits)

Information Studies

Explore the intersection of IT infrastructures and culture in global organizations including issues of globalization, distributed collaboration, global enterprise systems, data, business analytics and knowledge management.

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Civic and Global Responsibility (<https://coursecatalog.syracuse.edu/shared-competencies/civic-and-global-responsibility/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 314 Interacting with AI (3 Credits)

Information Studies

This course helps students gain AI literacy. This course interweaves experiences working with a variety of AI tools, from text to art and voice to video, with critical interrogation of these AI tools, inviting students to consider the implications of AI use in a variety of contexts.

IST 320 AI & Humanity: Charting Possible Futures (3 Credits)

Information Studies

Cross-listed with MAX 320

This course provides a comprehensive understanding of Artificial Intelligence to students from different backgrounds and disciplines, including key concepts, techniques, and technical infrastructure, along with their social, environmental, economic, legal, and cultural context of emergence.

IST 323 Introduction to Information Security (3 Credits)*Information Studies*

Basic concepts and technologies of information security, including security properties, vulnerabilities, cryptography, security policies, access control, authentication, firewalls, wireless security, internet security protocols, real life cases, hands on labs, and other related topics.

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>)

IST 325 Information Management Consultation (3 Credits)*Information Studies*

Basic understanding of organizational, technical and management architecture that comprise enterprise systems development environments from a consultant's POV. Students meet with a fictitious customer who is looking for an automated solution from their current manual operation. Consulting team works with customer to develop project planning, analysis, and design phases while covering implementation and maintenance. Microsoft Project Tool used

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 335 Introduction to Information-Based Organizations (3 Credits)*Information Studies*

Explore how teams and individuals create and utilize technology and data within modern organizations. Examine how organizational leaders navigate challenges and enact strategic change. Learn how managers design work environments to ensure worker effectiveness and wellbeing.

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 336 Leading Issues in Information Security (3 Credits)*Information Studies*

Today's leading issues and challenges in cybersecurity, considering global perspectives that are related to current technology trends. Students will also have research opportunities in the topic area and hands on experiences in information security.

Shared Competencies: Scientific Inquiry and Research Skills (<https://coursecatalog.syracuse.edu/shared-competencies/scientific-inquiry-and-research-skills/>)

IST 337 iSchool Support Practicum (1-3 Credits)*Information Studies*

This experiential learning course is designed to provide students with opportunities to expand their knowledge of various content areas by working with a professor, assisting with course assignments, labs, and other student support elements.

Repeatable 2 times for 6 credits maximum

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 341 Human-Centered Design (3 Credits)*Information Studies*

Learn core principles of human-computer interaction (HCI) design, focusing on design methods to create technology that meets real-world user needs and values. Through a hands-on team project, they gain practical experience in applying HCI design to create meaningful technology solutions.

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 342 Information Security Policy (3 Credits)*Information Studies*

Students develop the skills necessary for understanding, improving and implementing information security policies. Learn the fundamentals of information security frameworks, awareness and training, and effective policy writing, to create successful information security policies.

Prereq: IST 323

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 343 Data in Society (3 Credits)*Information Studies*

Critically examine how individuals, groups, and societies create and are created by digital data and algorithms. You will analyze the social, political, legal, and environmental impacts of data and data-driven technologies across varying contexts including social media and (generative) AI.

University Requirement Course: IDEA Requirement Eligible

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Ethics and Integrity (<https://coursecatalog.syracuse.edu/shared-competencies/ethics-and-integrity/>)

IST 344 Information Reporting and Presentation (3 Credits)*Information Studies*

This course teaches students to synthesize and present organized information for various audiences using text, graphics and multimedia. It emphasizes presentation skills, impactful visuals, communication strategies, and foundational training for professional delivery.

Shared Competencies: Communication Skills (<https://coursecatalog.syracuse.edu/shared-competencies/communication-skills/>)

IST 345 Managing Information Systems Projects (3 Credits)*Information Studies*

Double-numbered with IST 645

Project management as a professional discipline in information and communication technology. Introduction to roles, activities, methods, and tools. Critical review and application of principles. Microsoft Project (Industry standard) will be the tool used in class. Additional work required of graduate students

Shared Competencies: Scientific Inquiry and Research Skills (<https://coursecatalog.syracuse.edu/shared-competencies/scientific-inquiry-and-research-skills/>)

IST 346 Information Technology Management and Administration (3 Credits)*Information Studies*

Information technology management principles and practices.
Administration of computers, operating systems, and applications.
Tools and techniques for managing information technology operations.
Includes hands-on labs.

Prereq: IST 233

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 349 Human Computer Interaction (3 Credits)*Information Studies*

Students will learn to critically evaluate existing Information and Communication Technologies (ICTs), and how to design ethical and equitable ICTs utilizing user-centered design perspectives and methods.

IST 352 Information Analysis of Organizational Systems (3 Credits)*Information Studies*

Introduces information flow as basis of organizational work and role of information systems in managing work. Concept of systems decomposition to facilitate analysis. Skills required to decompose, model, and analyze information systems.

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Communication Skills (<https://coursecatalog.syracuse.edu/shared-competencies/communication-skills/>)

IST 353 Graphic Design for the Web (3 Credits)*Information Studies*

This course introduces students to design principles and tools, covering topics such as design theory, color theory, grid systems, user experience (UX), and accessibility. Students will learn project management methods for designers, use Figma and Adobe Creative Suite, and build a personal website through hands-on labs and project-based learning.

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 356 Programming Techniques for Data Analytics (3 Credits)*Information Studies*

Approaches for building pipelines in data analytics using the Python programming language; data cleaning, extraction, wrangling, APIs, web scraping. Building data products. Programming experience required.

Repeatable 2 times for 6 credits maximum

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 359 Introduction to Database Management Systems (3 Credits)*Information Studies*

Learn relational database basics, including design and development. This course covers SQL for creating tables, querying data, managing metadata, and touches on advanced SQL. It also focuses on database design using ER diagrams and data normalization to optimize relational databases.

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 363 Advanced Front End Web Design (3 Credits)*Information Studies*

Further your knowledge of web development with advanced JavaScript, the latest JavaScript frameworks, CSS libraries and more. Topics will include faster styling and layout techniques and projects that help you learn the tools professional web developers use

Prereq: IST263

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 375 Dynamics of Human AI Interaction (3 Credits)*Information Studies*

Double-numbered with IST 675

Understand, analyze, and critique scientific and practical perspectives on what counts as ζ interactivity ζ and ζ intelligence ζ when AI-driven agents interact with humans

IST 380 International Course (1-12 Credits)*Information Studies*

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Repeatable 3 times for 12 credits maximum

IST 382 Cultural Competence for Information Professionals (3 Credits)*Information Studies*

Double-numbered with IST 682

This course prepares information professionals to develop cultural competencies and provide inclusive services to underrepresented populations. It relates cultural competence to meeting information needs of communities through library and information collection development, outreach, and services. Additional work for graduate students.

Shared Competencies: Ethics and Integrity (<https://coursecatalog.syracuse.edu/shared-competencies/ethics-and-integrity/>)

IST 387 Introduction to Applied Data Science (3 Credits)*Information Studies*

Introduction to using data science across many different situations.

Covers concepts such as data management, transformation, analysis, and machine learning, using R. No programming experience required.

Hands-on projects and real-world problem-solving help identify when data science is useful, with emphasis on ethically applying data science.

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>); Scientific Inquiry and Research Skills (<https://coursecatalog.syracuse.edu/shared-competencies/scientific-inquiry-and-research-skills/>)

IST 400 Selected Topics (1-6 Credits)*Information Studies*

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester.

Repeatable

IST 402 Digital Forensics (3 Credits)*Information Studies*

Topics include the basic concepts, ethics/codes, procedures, forensic techniques, analysis, example cases, hands on labs, and applications to existing environments such as e-mail, social media, mobile devices, IoT, and others.

Prereq: IST 195

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 407 Data Mining (3 Credits)*Information Studies*

Introduction to machine-learning techniques and their underlying algorithms. Students learn to build machine learning pipelines that transform raw data into machine learning models that yield actionable insights using real-world data. Hands on programming experience in the Python language with industry standard technologies.

Prereq: IST 356 and IST 387

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Communication Skills (<https://coursecatalog.syracuse.edu/shared-competencies/communication-skills/>)

IST 408 Blockchain Management (3 Credits)*Information Studies*

Double-numbered with IST 608

Students complete distributed ledger labs before developing, implementing, and 'demo or die' sharktanking their own new blockchain project. Blockchain concepts such as decentralization, smart contracts, trust and consensus governance are discussed. Additional work for graduate students.

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 414 Data-Driven Inquiry (3 Credits)*Information Studies*

Theories and techniques for real-world research into human phenomena across various contexts (business, society, friendships, politics). Learn about asking good questions, matching methods with questions, designing ethical studies, and gathering and analyzing both qualitative and quantitative data.

Shared Competencies: Scientific Inquiry and Research Skills (<https://coursecatalog.syracuse.edu/shared-competencies/scientific-inquiry-and-research-skills/>)

IST 418 Big Data Analytics (3 Credits)*Information Studies*

Learn to develop actionable insights from big data using open-source tools (Python and Spark). This course prepares students to build scalable data analytics pipelines and apply advanced machine learning techniques, culminating in a hands-on project tackling real-world challenges.

Prereq: IST 356 and IST 387

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>)

IST 419 Economics of Digital Transformation (3 Credits)*Information Studies*

Navigate the economics of our digital world, from network effects to platform dynamics. Explore how technology reshapes markets, pricing strategies, and consumer behavior while analyzing real-world cases from today's leading digital businesses.

Shared Competencies: Scientific Inquiry and Research Skills (<https://coursecatalog.syracuse.edu/shared-competencies/scientific-inquiry-and-research-skills/>)

IST 421 Information Visualization (3 Credits)*Information Studies*

Introduction to skills and techniques related to information visualization, through various programming and illustration tools, data cleaning techniques, design concepts and ethics. Develop static data visualizations to explore and communicate findings from a variety of data sources.

Prereq: IST 256 or IST 356 or IST 359 or IST 387 or SAL 413

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 422 Acquiring, Procuring, and Financing Information Technology (3 Credits)*Information Studies*

Preparing and negotiating information technology requests, cost-benefit analysis, and budget alternatives. Financing options for information processing and telecommunications projects, preparing requests for proposals or other procurement alternatives, negotiating with vendors, acquisition strategies.

IST 425 Enterprise Risk Management (3 Credits)*Information Studies*

A multidisciplinary perspective of risk assessment, modeling, and management. Topics include: concepts of personal accountability versus governance and policy; how organizations define and measure risk and loss; and plan for contingencies.

Shared Competencies: Scientific Inquiry and Research Skills (<https://coursecatalog.syracuse.edu/shared-competencies/scientific-inquiry-and-research-skills/>)

IST 426 Information Justice & Community Engagement (3 Credits)*Information Studies*

Double-numbered with IST 626

This course will examine the interrelation of social justice and community engagement in online and naturalistic communities. Areas of emphasis will explore how gender, race, class and community location (on and off-line) affect and are affected by information. Additional work for graduate students.

University Requirement Course: IDEA Requirement Eligible

Shared Competencies: Ethics and Integrity (<https://coursecatalog.syracuse.edu/shared-competencies/ethics-and-integrity/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 429 Technology and the Future of Work (3 Credits)*Information Studies*

Double-numbered with IST 629

Explore the rapidly evolving landscape of work. Examine how emerging technologies like artificial intelligence, robotics, and extended reality are impacting industries, jobs, and the very nature of work itself. Topics include a history of work, labor organizing, work augmentation, work-life balance, and future worker skills and capabilities. Additional work required for graduate students.

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>)

IST 431 Security in a Networked Environment (3 Credits)*Information Studies*

This course addresses key concepts, technologies, and management strategies associated with securing enterprise digital computer networks and related devices and applications. Students will gain an understanding of the major threats and vulnerabilities as well as technologies and strategies for protection.

Prereq: IST 233 and IST 323

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 442 Agile Project Management Methodologies (3 Credits)*Information Studies*

Practical approach to the Agile framework for the Software Development Life-Cycle. Unique learning approaches to foster the skills and cultural mindset necessary for success in Agile Project Management.

Prereq: IST 345

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>)

IST 452 Advanced Computer Networking (3 Credits)*Information Studies*

Technical, design, and management issues related to enterprise computer networking. In-depth investigations of TCP/IP Internet work protocols and popular network technologies including Ethernet and Wireless. Hands-on experience with protocol analysis, network management, and security.

Prereq: IST 233

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 456 Information Policies and Decision Making (3 Credits)*Information Studies*

Current and emerging information policy issues, policy formulation and conflict, roles and perspectives of actors in policy-making processes. Decision making on freedom of information, privacy, access, intellectual property rights, information security classification and restriction, cybercrime

Shared Competencies: Civic and Global Responsibility (<https://coursecatalog.syracuse.edu/shared-competencies/civic-and-global-responsibility/>)

IST 466 Professional Issues in Information Studies (3 Credits)*Information Studies*

Integration of management strategies, information uses, and information technologies with an emphasis on professional conduct, ethics, and career strategies. In-depth review and use of case studies. Outside organizations such as EY, Synchrony and Adobe work with the class to have students analyze and resolve real ethical cases they've encountered. Seniors only. iSchool majors and minors.

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Ethics and Integrity (<https://coursecatalog.syracuse.edu/shared-competencies/ethics-and-integrity/>); Scientific Inquiry and Research Skills (<https://coursecatalog.syracuse.edu/shared-competencies/scientific-inquiry-and-research-skills/>)

IST 469 Advanced Big Data Management (3 Credits)*Information Studies*

Double-numbered with IST 769

Analyze relational and non-relational databases and corresponding database management system architectures. Learn to build complex database objects to support a variety of needs from big data and traditional perspectives. Data systems performance, scalability, security. Additional work required for graduate students.

Prereq: IST 359

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 470 Experience Credit (1-6 Credits)*Information Studies*

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing.

Repeatable

IST 471 Internship in Information Management and Technology (1-6 Credits)*Information Studies*

Fully supervised internship available to IST majors and minors.

Repeatable 6 times for 12 credits maximum

IST 472 Cooperative Education in Information Management and Technology (1-12 Credits)*Information Studies*

Fully supervised, paid, cooperative education experience extending over two separate time periods. Students must complete a contract with site supervisor.

Repeatable 6 times for 12 credits maximum

IST 476 Applied Information Security (3 Credits)*Information Studies*

This course is intended to explore how to apply information security technologies and approaches to real-life systems and services.

Prereq: IST 323

Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>); Scientific Inquiry and Research Skills (<https://coursecatalog.syracuse.edu/shared-competencies/scientific-inquiry-and-research-skills/>)

IST 477 Capstone in Innovation, Society & Technology (IST) (3 Credits)*Information Studies*

Required capstone for BS in Innovation, Society & Technology (IST). Students research a technology, innovation and society topic. This capstone course may build on prior coursework, or demonstrate student capacity for innovating in new directions

Shared Competencies: Critical and Creative Thinking (<https://coursecatalog.syracuse.edu/shared-competencies/critical-and-creative-thinking/>); Scientific Inquiry and Research Skills (<https://coursecatalog.syracuse.edu/shared-competencies/scientific-inquiry-and-research-skills/>)

IST 480 International Course (3-12 Credits)*Information Studies*

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript.

Repeatable 2 times for 12 credits maximum

IST 486 Social Media in the Organization (3 Credits)*Information Studies*

Introduction to the use and management of social media technologies, including strategies for communication, awareness of challenges, and tools and techniques for analysis of social media in contemporary organizations.

Shared Competencies: Communication Skills (<https://coursecatalog.syracuse.edu/shared-competencies/communication-skills/>)

IST 487 The Impact & Analytics of Social Media Network Influence (3 Credits)*Information Studies*

We live in a digital era of unprecedented interconnectedness and viral information spread. This class explores the intersection of social media communication, influencer marketing, and social networks, covering key concepts, strategies, and analytic techniques to understand influencers, trends, and societal changes in a networked world

IST 488 Building Human Centered AI Applications (3 Credits)*Information Studies*

Double-numbered with IST 688

Learn to build Generative AI applications leveraging large language models. Through hands-on projects, students will use libraries and APIs to create conversational agents, Q&A bots, and goal-oriented assistants. Topics covered include prompt engineering, AI conversational memory, output evaluation, and responsible AI practices. Additional work required for graduate students.

IST 490 Independent Study (1-6 Credits)*Information Studies*

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department.

Repeatable

IST 499 Honors Capstone Project (1-3 Credits)*Information Studies*

Completion of an Honors Capstone Project under the supervision of a faculty member.

Repeatable 3 times for 3 credits maximum

IST 500 Selected Topics (1-6 Credits)*Information Studies*

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester.

Repeatable

IST 511 Cultural Foundations of Information Studies (3 Credits)*Information Studies*

Survey of the professional, social, ethical, and legal issues affecting information service professionals and organizations and prepares students to deal with these issues and work with a diverse community. Shared Competencies: Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 553 Information Architecture for Internet Services (3 Credits)*Information Studies*

Building and management of Internet information services, including information organization, information management, and information dissemination. Understanding of the use of Internet technologies within an organizational context. Practice with current technologies.

IST 564 Accessible Library & Information Services (3 Credits)*Information Studies*

Provides students on K-12, public, and academic library paths with context, awareness, and strategies to develop programs, services and facilities, and to select resources and technologies that ensure patrons and staff with disabilities have inclusive library experiences.

Shared Competencies: Ethics and Integrity (<https://coursecatalog.syracuse.edu/shared-competencies/ethics-and-integrity/>); Information Literacy and Technological Agility (<https://coursecatalog.syracuse.edu/shared-competencies/information-literacy-and-technological-agility/>)

IST 580 International Course (1-12 Credits)*Information Studies*

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript.

Repeatable 1 times for 12 credits maximum