IDT 730. Principals and Practice of Human Performance Technology. 3 Credits.
Lecture 3 hours. 3 credits. This course explores both the principles and practices of human performance technology, with roughly equal emphasis on both. Students will learn what HPT is, how it’s applied in practice, and how and why instructional designers need to know about it. Particular emphasis is given to determining whether or not problems are best amenable to instructional solutions.

IDT 735. Noninstructional Interventions. 3 Credits.
This project-based course examines several different non-instructional interventions that can be used to promote performance improvement. Major methodologies common in the field will be explored as a class, and students will also be required to familiarize themselves with other methodologies of their choice. Emphasis will be on the following interventions: job analysis/ work design, performance development, human resource development, organizational communication, organizational design and financial systems.

IDT 737. Consulting Skills for Instructional Designers. 3 Credits.
Lecture, 3 hours. 3 credits. This project-based course is designed to develop and enhance the ability of instructional designers to work as partners and consultants to clients and superiors. The focus is on consulting skills per se, and not any particular content. All students will be required to do an individual consulting project, supervised by the instructor.

IDT 739. Needs Analysis and Assessment. 3 Credits.
Lecture, 3 hours; 3 credits. This project-based class will focus on the process of doing a needs analysis and assessment, from start to finish. Although theoretical considerations regarding needs analyses will be explored, the emphasis is on actually conducting the analysis. Students will work in teams under the supervision of the instructor to conduct a needs analysis for an external client.

IDT 742. Task Analysis Methods. 3 Credits.
Lecture, 3 hours; 3 credits. This project-based course examines several different task analysis methodologies. Major methodologies common in the field will be explored as a class, and students will also be required to familiarize themselves with other methodologies of their choice. Emphasis will be on practical application of the methodologies, especially as regards instructional products or systems.

IDT 746. Foundations of Distance Education. 3 Credits.
Lecture 3 hours; 3 credits. An analysis of the trends, issues, and theories of distance education in education, business, and military applications. Students will examine various distance education systems, policies and lessons from different perspectives.

IDT 748. Instructional Technology Product Evaluation. 3 Credits.
Provides an overview to the science of evaluation, both as a general field and as applied to instruction. Topics will include evaluating the effectiveness of learning technologies; building survey instruments; online and computer-assisted testing; reporting practices; as well as formative, summative program and performance evaluation and assessment. The unique demands of evaluating mediated education and learning environments will be considered. Prerequisites: IDT 749 and IDT 849.

IDT 749. Instructional Systems Design. 3 Credits.
Lecture 3 hours; 3 credits. Students will gain hands-on experience applying a theoretical understanding of instructional design and development to actual projects. Students will learn and use the Instructional Systems Design Process from initial learner profile analysis to design and development through to evaluation. Students will work individually and in teams to gain experience similar to real-world instructional design situations. Students will master the fundamental practices upon which the instructional design process is based.

IDT 751. Computer-Based Multi-Media Design. 3 Credits.
This course covers the theory, design, and evaluation of computer-based multimedia instruction. Students will demonstrate a thorough understanding of instructional theory and design strategies for computer-based drills, tutorials, hypermedia, simulations, games, tools, open-ended learning environments, tests, and web-based instruction. Class projects will center on the design and development of instruction utilizing at least two of these methodologies. Prerequisites: IDT 749 and IDT 849.
IDT 752. Diffusion and Adoption of Instructional Technology Innovations. 3 Credits. Lecture 3 hours; 3 credits. This course will explore theories, research, and strategies related to the diffusion and adoption of instructional technology innovations in education and training. The course will explore why and how individuals, groups, and organizations adopt or fail to adopt an innovation or change.

IDT 755. Theory and Design of Instructional Simulation. 3 Credits. Lecture 3 hours; 3 credits. This course focuses on learning theory, design and evaluation of instructional simulations and simulators. Topics include history, instructional design, validation, and integration of instructional simulations.

IDT 756. Instructional Gaming: Theories and Practice. 3 Credits. Lecture 3 hours; 3 credits. Provides both a conceptual framework and experience in the design and development of instructional games. The course introduces the student to the history, research, theory, and practice of instructional games. Topics include discussions of relevant learning theories associated with instructional gaming, analysis and design of games and current research in instructional gaming.

IDT 760. Cognition and Instructional Design. 3 Credits. Lecture 3 hours; 3 credits. Students will be introduced to the theoretical frameworks that form the basis of instructional systems theory and design. Focus will be on learning theories, instructional psychology, and instructional system theory. Recent developments in cognition, learning and instruction for educators will also be considered. Topics include perspectives of behaviorism, social-historical constructivism, cognitive science, situated cognition, and cultural influences on cognition.

IDT 761. Applied Instructional Design. 3 Credits. Problem-based course in which students gain experience applying knowledge from IDT 749/849 to real-world instructional and instructional technology problems. Project work is individual, paired, and in teams. Students demonstrate mastery of the instructional design and development process through production of tools, technologies, media or materials that successfully resolve an instructional problem. Focus is on rapid prototyping model. Prerequisites: IDT 749 and IDT 849.

IDT 763. Instructional Design Theory. 3 Credits. Lecture 3 hours; 3 credits. Students will investigate traditional and contemporary instructional design theories and models. Behavioral, cognitive, generative, problem-based learning, and constructivist theories as well as cognitive hierarchies will be examined, compared, contrasted and applied to various instructional situations.

IDT 764. Theories and Research. 3 Credits. Lecture 3 hours, 3 credits. This course is a study of the application of perceptual and learning principles to the design of instructional media for use in educational and training applications. The focus is on the development and application of heuristics from the research literature. We will examine verbal and iconic signs as well as visual imagery, and their role in the instructional and learning processes.

IDT 773. Advanced Instructional Design Techniques. 3 Credits. Lecture 3 hours; 3 credits. Corequisite: IDT 749/849. Exploration and application of techniques, tools and competencies characteristic of expert designers. Topics may include: instructional strategies, use of design software, program design, advanced analysis techniques, motivation design, rapid prototyping, reducing design cycle time, and designing instruction for diverse learner populations.

IDT 775. Designing Online Instruction. 3 Credits. Lecture, 3 hours. 3 credits. An applied survey of online instruction, including relevant theory and design considerations. Topics include efficacy of online learning, design considerations when using course management systems and similar online learning technologies, research and future directions.

IDT 795. Topics in Instructional Design and Technology. 1-3 Credits. 1-3 credits. Provides opportunities for master’s and doctoral students to explore topics related to instructional design.

IDT 801. Instructional Design and Technology Seminar. 3 Credits. Lecture 3 hours; 3 credits. Introduces new Ph.D. students to the field of instructional design and technology and provides orientation to doctoral level study. The course includes reading, critiquing and analyzing empirical research, theories, and real-world instructional problems. Potential student research agendas consistent with faculty or programmatic research foci will be explored. Academic and technological expectations will be communicated and practiced.

IDT 810. Trends and Issues in Instructional Design and Technology. 3 Credits. Lecture 3 hours; 3 credits. Prerequisite: 9 hours IDT coursework. Exploration and discussion of trends and issues of current and historical significance to instructional design. Readings will include contributions of key scholars, past and present, in instructional design and related fields. Includes analysis of trends and issues to track and predict their impact on the future of the field.

IDT 815. Management of Technology Resources in the Classroom. 3 Credits. Lecture, 3 hours. 3 credits. Surveys computing technology with a focus on management in educational contexts. Implementation, integration and resourcing will be covered.

IDT 825. Human Performance Assessment. 3 Credits. Lecture, 3 hours. 3 credits. Prerequisite: FUN 722 or equivalent. This course focuses on the theory, design, and evaluation of measurement instruments used to assess individual knowledge, performance, and attitudes. Topics include fundamentals of measurement, reliability, validity, and instrument selection, construction, and use. Students will develop and evaluate instruments for instructional and research purposes.

IDT 830. Principals and Practice of Human Performance Technology. 3 Credits. Lecture 3 hours. 3 credits. This course explores both the principles and practices of human performance technology, with roughly equal emphasis on both. Students will learn what HPT is, how it’s applied in practice, and how and why instructional designers need to know about it. Particular emphasis is given to determining whether or not problems are best amenable to instructional solutions.

IDT 835. Noninstructional Interventions. 3 Credits. This project-based course examines several different non-instructional interventions that can be used to promote performance improvement. Major methodologies common in the field will be explored as a class, and students will also be required to familiarize themselves with other methodologies of their choice. Emphasis will be on the following interventions: job analysis/ work design, performance development, human resource development, organizational communication, organizational design and financial systems.

IDT 837. Consulting Skills for Instructional Designers. 3 Credits. Lecture, 3 hours. 3 credits. This project-based course is designed to develop and enhance the ability of instructional designers to work as partners and consultants to clients and superiors. The focus is on consulting skills per se, and not any particular content. All students will be required to do an individual consulting project, supervised by the instructor.

IDT 839. Needs Analysis and Assessment. 3 Credits. Lecture, 3 hours; 3 credits. This project-based class will focus on the process of doing a needs analysis and assessment, from start to finish. Although theoretical considerations regarding needs analyses will be explored, the emphasis is on actually conducting the analysis. Students will work in teams under the supervision of the instructor to conduct a needs analysis for an external client.

IDT 842. Task Analysis Methods. 3 Credits. Lecture, 3 hours; 3 credits. This project-based course examines several different task analysis methodologies. Major methodologies common in the field will be explored as a class, and students will also be required to familiarize themselves with other methodologies of their choice. Emphasis will be on practical application of the methodologies, especially as regards instructional products or systems.
IDT 846. Foundations of Distance Education. 3 Credits.
Lecture 3 hours; 3 credits. An analysis of the trends, issues, and theories of
distance education in education, business, and military applications. Students
will examine various distance education systems, policies and lessons from
different perspectives.

IDT 848. Instructional Technology Product Evaluation. 3 Credits.
Provides an overview to the science of evaluation, both as a general field and
as applied to instruction. Topics will include evaluating the effectiveness of
learning technologies; building survey instruments; online and computer-
assisted testing; reporting practices; as well as formative, summative
program and performance evaluation and assessment. The unique demands
of evaluating mediated education and learning environments will be
considered. Prerequisites: IDT 749 and IDT 849.

IDT 849. Instructional Systems Design. 3 Credits.
Lecture 3 hours; 3 credits. Students will gain hands-on experience applying
a theoretical understanding of instructional design and development to
actual projects. Students will learn and use the Instructional Systems Design
Process from initial learner profile analysis to design and development
through to evaluation. Students will work individually and in teams to gain
experience similar to real-world instructional design situations. Students
will master the fundamental practices upon which the instructional design
process is based.

IDT 851. Computer-Based Multi-Media Design. 3 Credits.
This course covers the theory, design, and evaluation of computer-based
multimedia instruction. Students will demonstrate a thorough understanding
of instructional theory and design strategies for computer-based drills,
tutorials, hypermedia, simulations, games, tools, open-ended learning
environments, tests, and web-based instruction. Class projects will center
on the design and development of instruction utilizing at least two of these
methodologies. Prerequisites: IDT 749 and IDT 849.

IDT 852. Diffusion and Adoption of Instructional Technology
Innovations. 3 Credits.
Lecture 3 hours; 3 credits. This course will explore theories, research, and
strategies related to the diffusion and adoption of instructional technology
innovations in education and training. The course will explore why and how
individuals, groups, and organizations adopt or fail to adopt an innovation or
change.

IDT 855. Theory and Design of Instructional Simulation. 3 Credits.
Lecture 3 hours; 3 credits. This course focuses on learning theory, design
and evaluation of instructional simulations and simulators. Topics include
history, instructional design, validation, and integration of instructional
simulations.

IDT 856. Instructional Gaming: Theories and Practice. 3 Credits.
Lecture 3 hours; 3 credits. Provides both a conceptual framework and
experience in the design and development of instructional games. The
course introduces the student to the history, research, theory, and practice
of instructional games. Topics include discussions of relevant learning theories
associated with instructional gaming, analysis and design of games and
current research in instructional gaming.

IDT 860. Cognition and Instructional Design. 3 Credits.
Lecture 3 hours; 3 credits. Students will be introduced to the theoretical
frameworks that form the basis of instructional systems theory and
design. Focus will be on learning theories, instructional psychology, and
instructional system theory. Recent developments in cognition, learning and
instruction for educators will also be considered. Topics include perspectives
of behaviorism, social-historical constructivism, cognitive science, situated
cognition, and cultural influences on cognition.

IDT 861. Applied Instructional Design. 3 Credits.
Problem-based course in which students gain experience applying
knowledge from IDT 749/849 to real-world instructional and instructional
technology problems. Project work is individual, paired, and in teams.
Students demonstrate mastery of the instructional design and development
process through production of tools, technologies, media or materials that
successfully resolve an instructional problem. Focus is on rapid prototyping
model. Prerequisites: IDT 749 and IDT 849.

IDT 863. Instructional Design Theory. 3 Credits.
Lecture 3 hours; 3 credits. Students will investigate traditional and
contemporary instructional design theories and models. Behavioral,
cognitive, generative, problem-based learning, and constructivist theories
as well as cognitive hierarchies will be examined, compared, contrasted and
applied to various instructional situations.

IDT 864. Theories and Research. 3 Credits.
Lecture 3 hours, 3 credits. This course is a study of the application of
perceptual and learning principles to the design of instructional media for
use in educational and training applications. The focus is on the development
and application of heuristics from the research literature. We will examine
verbal and iconic signs as well as visual imagery, and their role in the
instructional and learning processes.

IDT 873. Advanced Instructional Design Techniques. 3 Credits.
Lecture 3 hours; 3 credits. Corequisite: IDT 749/849. Exploration and
application of techniques, tools and competencies characteristic of expert
designers. Topics may include: instructional strategies, use of design
software, program design, advanced analysis techniques, motivation design,
r rapid prototyping, reducing design cycle time, and designing instruction for
diverse learner populations.

IDT 875. Designing Online Instruction. 3 Credits.
Lecture. 3 hours. 3 credits. An applied survey of online instruction, including
relevant theory and design considerations. Topics include efficacy of online
learning, design considerations when using course management systems and
similar online learning technologies, research and future directions.

IDT 879. Research Residency in Instructional Design and Technology. 3
Credits.
An introduction to conducting instructional technology research. Students
will work in consultation with their advisor to develop a proposal for a study
related to instructional technology as part of their research residency that
will be submitted for presentation at a nationally refereed conference or to a
refereed journal.

IDT 895. Topics in Instructional Design and Technology. 3 Credits.
1-3 credits. Provides opportunities for master’s and doctoral students to
explore topics related to instructional design.

IDT 898. Research Residency II. 1-3 Credits.
A mentored research project by the student's advisor. Students work
independently with their advisor to complete the research residency project.
This course focuses on obtaining appropriate human subjects approval,
collecting and analyzing data, and preparing a manuscript suitable for
presentation or publication in nationally refereed journal or conference.
Course may be repeated as needed, but only 3 hours may be counted toward
degree requirements. Prerequisites: IDT 879.