

Learning Design and Technology (LDT) Program

Program Descriptions, Requirements, and Course Schedules

Updated August 2026 | Courses are online | All course and instructor information is subject to change

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The educational goal of the Learning Design and Technology (LDT) program at the School of Education and Human Development (SEHD) is to prepare professionals to design and facilitate learning experiences, materials, and environments that leverage digital tools and platforms to make learning more effective, inclusive, accessible, and engaging. Emphasizing design justice, creativity, and learner-centered practices, the program equips graduates to lead and innovate in educational and organizational settings. Professional organizations that inform the LDT programs include: [The Learning Guild](#), [POD Network](#), [Association for Talent Development \(ATD\)](#), [Association for Educational Communications & Technology](#), [Training Magazine Network](#), [The Learning and Development Community](#), [Educause](#), and [Association for Advancement of Computing in Education](#).

The Learning Design and Technology (LDT) program offers options at the MA/certificate, doctoral, and undergraduate levels. All LDT Program options are completely online, and align with our [program's core competencies](#): critical digital literacy; instructional design; leadership; and diversity, equity, and inclusion.

The [LDT MA program and associated graduate certificate programs](#) offer different plans of study to match various professional roles such as P-12 Educators; College Instructors; and Learning Designers in workplace and P-20 settings. Delivered completely online, the 30 graduate-level credit hour LDT MA program includes combining certificate programs to flexibly address various professional roles and settings. Instead of an MA program that requires all students to complete a specific set of courses, this unique approach to the MA allows for differentiation based on your unique learning and professional interests and goals. Each certificate may be completed in one year or less, with the LDT MA completed in two years. You are not required to complete one certificate before starting the second one, you may work on two certificates simultaneously. Students work with their faculty mentor to select one or two certificates based on areas of interest for professional career development. The LDT MA concludes with a comprehensive thesis-in-practice experience (e.g., portfolio, culminating project, or thesis) in the final semester to demonstrate mastery of the [LDT Competencies](#). LDT MA/certificate students also have available to them an applied learning design internship experience working with actual clients in our Learning Agency. Refer to the LDT course schedule in this document as you develop your plan of study ([please use this template](#) – make a copy of the template for your personal use). If you are pursuing a career change, please consider completing [INTE 6930 Learning Agency/Internship](#) as an elective. You may take this course more than once, during any term. Learning Agency projects can be completed even if you are fully employed; the Learning Agency can work with your schedule.

The [EdD in Leadership for Educational Equity with a concentration in Learning Design](#) (previously Designing for Professional Learning) engages doctoral students in the creation, implementation, and study of learning design, learner-centered design approaches, and design-justice practices across academic, corporate, and community settings. Doctoral coursework is grounded in literature about equity-oriented learning; principles of design justice and learner-centered design; the impact of learning design on individuals and communities; and design-based research methods. Students who pursue this concentration are guided to implement doctoral research that centers the role and value of lived experience and directly influences real-world problems of professional practice. Completing concentration coursework also fulfills requirements for the [Leadership for Learning Design and Technology certificate](#).

The LDT Program also provides an [Undergraduate Minor and Certificate in Digital Media Design for Learning](#).

Ethical and Equitable Use of Artificial Intelligence (AI)

The Learning Design and Technology (LDT) program views artificial intelligence (AI) as a tool that, when used thoughtfully and transparently, can enrich learning, creativity, and professional practice. The program encourages both students and faculty to engage with AI in ways that are ethical, equitable, and grounded in human judgment and integrity.

As members of the LDT community, our shared responsibility is to use AI as a partner in learning, not as a replacement for human thinking, reflection, or authorship. AI tools should support critical inquiry, deepen understanding, and expand access, while honoring the human voices, experiences, and expertise that define education and human development.

At the same time, we need to recognize that AI platforms reflect only the information available on the internet and other digital sources, which means they do not represent the full range of human knowledge, cultures, or perspectives. Many voices, histories, and ways of knowing are underrepresented or misrepresented in AI results. The growing use of AI also risks widening existing digital divides, amplifying inequities in access, resources, and participation.

LDT students and faculty are expected to:

- Use AI tools transparently, acknowledging when and how they are used in academic or creative work.
- Use AI responsibly, ensuring outputs are accurate, fair, and free from harm or bias.
- Use AI equitably, considering how access and assumptions built into these systems may advantage or disadvantage others.
- Remain the authors and owners of their own learning, ensuring that ideas, reflections, and expressions remain genuinely their own.

Together, we will explore what it means to learn, teach, and create using AI platforms, guided always by ethical reflection, empathy, and the belief that education is a profoundly human endeavor.

Note: The [AI Assessment Scale](#) is a resource that may help you think and communicate about your professional use of AI.

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Program Descriptions

LDT Master of Arts (MA)

The online Master of Arts in Learning Design and Technology (LDT) program is a 30-credit graduate program designed to flexibly address various professional roles and settings. The LDT MA program and associated graduate certificate programs emphasize interactive learning and provide you with opportunities to engage with real-world problems of professional practice. The MA program offers different plans of study to match various professional roles such as P-12 educators; college instructors; and learning designers in workplace and P-20 settings. The program concludes with a comprehensive thesis-in-practice experience (e.g., portfolio, culminating project, or thesis) in the final semester to demonstrate mastery of the following competencies: critical digital literacy; instructional design; leadership; and diversity, equity, and inclusion. Students also have available to them an applied learning design internship experience working with actual clients in our Learning Agency.

LDT Graduate-level Certificates

The LDT graduate-level certificate programs allow for differentiation based on your unique learning and professional interests and goals. You can complete 1-2 certificates as part of your LDT MA program, or complete a certificate as a stand-alone professional learning experience. For each certificate, we recommend you start with the required course(s). These certificate programs may be started in any term and completed in one year.

1. Leadership for Learning Design & Technology (LDOL) Certificate

The Leadership for Learning Design and Technology (LDOL) certificate focuses on transformative change, culture, and initiative for modern learning organizations. You'll explore distinct themes of design justice, vision building, culture-shifting, innovation nurturing, business modeling, and knowledge management.

2. Learner-Centered Instructional Design (LCID) Certificate

The Learner-centered Instructional Design (LCID) certificate focuses on human-centered design, learning engagement and motivation, and learning and design frameworks. You'll explore distinct themes of design thinking, learning aesthetics,

inclusive and universal design, and system accessibility and usability.

3. Designing and Facilitating Online Learning (ONLT) Certificate

The Designing and Facilitating Online Learning certificate (previously the Online Teaching and Learning certificate for those admitted Sum25 or earlier) focuses on effective online and hybrid learning designs, high-impact practices, and modern learners. You'll explore distinct themes of instructional design for asynchronous and synchronous learning, inclusive pedagogies, active learning, and emerging pedagogies.

4. Digital and Inclusive Pedagogies (DTIP) Certificate

The Digital and Inclusive Pedagogies certificate is designed for primary, secondary, and postsecondary educators who seek to expand their capacity to design, facilitate, and evaluate inclusive digital learning environments. The program aligns with current trends in educational innovation, addressing urgent needs for equitable digital teaching practices, inclusive learning design, and competency in emerging technologies.

EdD Concentration in Learning Design (previously known as Designing for Professional Learning)

The LDT program offers an EdD in Leadership for Educational Equity with a concentration in Learning Design that engages doctoral students in the creation, implementation, and study of learning design, learner-centered design approaches, and design-justice practices across academic, corporate, and community settings.

Doctoral coursework is grounded in literature about equity-oriented learning; principles of design justice and learner-centered design; the impact of learning design on individuals and communities; and design-based research methods. Students who pursue this concentration are guided to implement doctoral research that centers the role and value of lived experience and directly influences real-world problems of professional practice. Completing concentration coursework also fulfills requirements for the [Leadership for Learning Design and Technology certificate](#).

The Learning Design concentration launches a new cohort each summer. This 54-credit program is structured for students to complete coursework over approximately three years, followed by the Doctoral Research Project (DRP), culminating in

degree completion within four years. Delivered entirely online, the curriculum combines asynchronous and synchronous learning experiences, providing students with flexible, high-quality access wherever a stable and reliable internet connection is available.

Undergraduate Minor in Digital Media Design for Learning

The Digital Media Design for Learning minor focuses on using digital and social media platforms and technologies, you will design and produce accessible materials and learning experiences for people in school, organizational, and community settings. People with the Digital Media Design for Learning minor go on to be designers and producers of educational software in publishing and software companies; designers and producers of online training and training materials for organizations; designers and producers of educational exhibits in art and science museums; and designers and academic-technology consultants in P12 and college/university settings.

Planned Schedule of LDT Graduate Courses by Term

Courses are online | Courses are 3 credits unless noted | Course and instructor information is subject to change

Please note: In the LDT MA 30-credit hour program students complete two certificates on their way to the MA*, leaving only an additional 6- to 9-credit hours to complete for graduation. The available certificates are: Leadership for LDT; Learner-Centered Instructional Design; Designing and Facilitating Online Learning; and Digital and Inclusive Pedagogies. Each certificate may be completed in one year or less, with the LDT MA completed in two years. The formula for completing the MA's 30 credits = Certificate #1 (12 credits) + Certificate #2 (12 credits) + one elective course (3 credits) + INTE 6950 Experiential Thesis (3 credits). [Please use this template](#) to plan out your program of study – make a copy of the template for your personal use.

FALL	SPRING	SUMMER
Graduate MA & Certificates	Graduate MA & Certificates	Graduate MA & Certificates
INTE 5100 Learner-centered Design Instructor: Sarah North INTE 5110 Learning Design, Mentoring, and Coaching Instructor: Deborah Lowe INTE 5250 Teaching Strategies for Online Learning Instructor: Jill Giacomini INTE 5660 Developing Self-paced Online Modules Instructor: Lizzy Kizer INTE 5711 Creative Designs for Learning Instructor: Joni Dunlap INTE 5750 AI-Enhanced Pedagogy Instructor: Dennis DeBay	INTE 5100 Learner-centered Design Instructor: Sarah North INTE 5010 Humanizing Learning Design Instructor: Laura McAlister INTE 5140 Transforming Learning Design: Integrating Design Justice Principles Instructor: Deborah Lowe INTE 5360 Critical Digital Pedagogy Instructor: Sarah North INTE 5670 Crafting Synchronous Learning Instructor: Joni Dunlap INTE 6930 Learning Agency/Internship Instructor: Brad Hinson See this site and the course syllabus for more information.	INTE 5200 Crafting eLearning Experiences Instructor: Alexis Bjelica INTE 5320 Games and Learning Instructor: Brad Hinson INTE 5680 Producing Media for Learning Instructor: Jill Giacomini INTE 5340 Learning with Digital Stories Instructor: Suzannah Evans INTE 6930 Learning Agency/Internship Instructor: Brad Hinson See this site and the course syllabus for more information. INTE 6950 Experiential Thesis Serves as the Final Comprehensive Exam/Capstone course for MA or serves as the final concentration #4 course for EdD

INTE 6160 Project Management for Learning Design Instructor: Sarah North INTE 6750 Trends & Issues in LDT Instructor: Alexis Bjelica INTE 6930 Learning Agency/Internship Instructor: Brad Hinson See this site and the course syllabus for more information. INTE 6840 Independent Study Special Processing Form Instructor: Contact your faculty mentor for how to register for this course INTE 6950 Experiential Thesis Serves as the Final Comprehensive Exam/Capstone course for MA or serves as the final concentration #4 course for EdD students to work on a DRP proposal. See this Google Doc for more information. Instructor: Joni Dunlap	INTE 6840 Independent Study Special Processing Form Instructor: Contact your faculty mentor for how to register for this course INTE 6950 Experiential Thesis Serves as the Final Comprehensive Exam/Capstone course for MA or serves as the final concentration #4 course for EdD students to work on a DRP proposal. See this Google Doc for more information. Instructor: Joni Dunlap	students to work on a DRP proposal. See this Google Doc for more information. Instructor: Joni Dunlap INTE 7100 Designing Professional Learning Instructor: Jason Drysdale
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*= You may choose to complete one certificate instead of two, to allow for additional flexibility in course selection.

Planned Schedule of EdD Learning Design Concentration Courses by Term

Courses are online | Courses are 3 credits unless noted | Course and instructor information is subject to change

Please note: Completing INTE 6750, INTE 7110, INTE 7140, and INTE 7360 fulfills the requirements for the [Leadership for Learning Design and Technology \(LEAD\) certificate](#); please let Carol Wahby (CAROL.WAHBY@UCDENVER.EDU) know if you want the certificate on your transcript as well. For other course requirements (e.g., CORE and RESEARCH) please see your EdD Student Handbook – [EdD Student Handbooks and Forms](#).

FALL	SPRING	SUMMER
Doctoral	Doctoral	Doctoral
INTE 6750 Trends & Issues in LDT (CONCENTRATION YEAR 1, 1 of 4)* Instructor: Alexis Bjelica INTE 7110 Learning Design, Mentoring, and Coaching (CONCENTRATION YEAR 2, 3 of 4) Instructor: Deborah Lowe INTE 7750 AI-Enhanced Pedagogy Instructor: Dennis DeBay INTE 6950 Experiential Thesis DRP proposal planning course for DLP-concentration EdD students [See DRP Proposal Structure and Examples.] Instructor: Joni Dunlap	INTE 7140 Transforming Learning Design: Integrating Design Justice Principles (CONCENTRATION YEAR 1, 2 of 4) Instructor: Deborah Lowe (New starting Spring 2027) INTE 7360 Critical Digital Pedagogy (CONCENTRATION YEAR 2, 4 of 4) Instructor: Sarah North INTE 6950 Experiential Thesis DRP proposal planning course for DLP-concentration EdD students [See DRP Proposal Structure and Examples.] Instructor: Joni Dunlap	INTE 7100 Designing Professional Learning (CORE YEAR 2 or 3) Instructors: Jason Drysdale INTE 6950 Experiential Thesis DRP proposal planning course for DLP-concentration EdD students [See DRP Proposal Structure and Examples.] Instructor: Joni Dunlap

*= If you have completed this course as part of the LDT MA or Leadership for LDT certificate program, please contact Dr. Joni Dunlap before registering.

Planned Schedule of LDT Undergraduate Courses by Term

Courses are online | Courses are 3 credits unless noted | Course and instructor information is subject to change

FALL	SPRING	SUMMER
Undergraduate & Minor	Undergraduate & Minor	Undergraduate & Minor
INTE 2000 Digital Teaching and Learning Instructor: Rosanna Miiller Salas INTE 4100 Learning Experience Design [Crosslisted with INTE 5100] Instructor: Sarah North INTE 4660 Developing Self-paced Online Modules [Crosslisted with INTE 5660] Instructor: Lizzy Kizer INTE 4711 Creative Designs for Learning [Crosslisted with INTE 5711] Instructor: Joni Dunlap	INTE 2000 Digital Teaching and Learning Instructor: Rosanna Miiller Salas INTE 4100 Learning Experience Design [Crosslisted with INTE 5100] Instructor: Sarah North INTE 4010 Humanizing Learning Design Instructor: Laura McAlister	INTE 4320 Games and Learning [Crosslisted with INTE 5320] Instructor: Susan Laws INTE 4340 Learning with Digital Stories [Crosslisted with INTE 5340] Instructor: Suzannah Evans INTE 4680 Producing Media for Learning [Crosslisted with INTE 5680] Instructor: Jill Giacomini

Graduate Certificates:

Planned Schedule of LDT Courses by Certificate

Courses are online | Courses are 3 credits unless noted | Course and instructor information is subject to change

Leadership for Learning Design & Technology (LDOL) Certificate

The Leadership for Learning Design and Technology (LDOL) certificate focuses on transformative change, culture, and initiative for modern learning organizations; with distinct themes of vision building, culture-shifting, innovation nurturing, business modeling, and knowledge management. We recommend you start with the required course. If you are pursuing a career change, please consider completing [INTE 6930 Learning Agency/Internship](#) as an elective. You may take this course more than once, during any term. Learning Agency projects can be completed even if you are fully employed; the Learning Agency can work with your schedule. * = Required for EdD Learning Design Concentration students.

Required course:

- ☐ INTE 6750 Trends and Issues in Learning Design and Technology [Starting Fall 2025, only offered once a year]

Recommended electives, select THREE courses:

- ☐ INTE 5110 Learning Design, Mentoring, and Coaching [* EdD students register for INTE 7110]
- ☐ INTE 5140 Transforming Learning Design: Integrating Design Justice Principles [* EdD students register for INTE 7140]
- ☐ INTE 5360 Critical Digital Pedagogy [* EdD students register for INTE 7360]
- ☐ INTE 6160 Project Management for Instructional Design
- ☐ INTE 6930 Learning Agency/Internship
- ☐ INTE 7100 Designing Professional Learning

FALL	SPRING	SUMMER
INTE 5110/7110 Learning Design, Mentoring, and Coaching	INTE 5140 Transforming Learning Design: Integrating Design Justice Principles	INTE 7100 Designing Professional Learning
INTE 6160 Project Management for Instructional Design	INTE 5360/7360 Critical Digital Pedagogy	INTE 6930 Learning Agency/Internship
INTE 6750 Trends & Issues in LDT	INTE 6930 Learning Agency/Internship	
INTE 6930 Learning Agency/Internship		

Learner-Centered Instructional Design (LCID) Certificate

The Learner-centered Instructional Design (LCID) certificate focuses on human-centered design, learning engagement and motivation, and learning frameworks. You'll explore distinct themes of design thinking, learning aesthetics, universal design, and system usability. We recommend you start with the required course. If you are pursuing a career change, please consider completing [INTE 6930 Learning Agency/Internship](#) as an elective. You may take this course more than once, during any term. Learning Agency projects can be completed even if you are fully employed; the Learning Agency can work with your schedule.

Required course:

- ☐ INTE 5100 Learner-Centered Design

Recommended electives, select THREE courses:

- ☐ INTE 5010 Humanizing Learning Design
- ☐ INTE 5660 Developing Self-paced Online Modules
- ☐ INTE 5680 Producing Media for Learning
- ☐ INTE 5711 Creative Designs for Learning
- ☐ INTE 6930 Learning Agency/Internship

Fall	Spring	Summer
INTE 5100 Learner-Centered Design	INTE 5010 Humanizing Learning Design	INTE 5680 Producing Media for Learning
INTE 5711 Creative Designs for Learning	INTE 5100 Learner-Centered Design	INTE 6930 Learning Agency/Internship
INTE 5660 Developing Self-paced Online Modules	INTE 6930 Learning Agency/Internship	
INTE 6930 Learning Agency/Internship		

Designing and Facilitating Online Learning (ONLT) Certificate

The Designing and Facilitating Online Learning certificate (previously titled Online Teaching and Learning) focuses on effective online and blended/hybrid learning designs, high-impact practices, and modern learners; with distinct themes of instructional design, inclusive pedagogies, active learning, and emerging pedagogies. We recommend you start with the required courses. If you are pursuing a career change, please consider completing [INTE 6930 Learning Agency/Internship](#) as an elective. You may take this course more than once, during any term. Learning Agency projects can be completed even if you are fully employed; the Learning Agency can work with your schedule.

THREE Required course:

- ☐ INTE 5200 Designing Online Learning Experiences
- ☐ INTE 5250 Teaching Strategies for Online Learning
- ☐ INTE 5670 Crafting Synchronous Learning

Recommended electives, select ONE course:

- ☐ INTE 5010 Humanizing Learning Design
- ☐ INTE 5340 Learning with Digital Stories
- ☐ INTE 5680 Producing Media for Learning
- ☐ INTE 5711 Creative Designs for Learning
- ☐ INTE 6930 Learning Agency/Internship

FALL	SPRING	SUMMER
INTE 5250 Teaching Strategies for Online Learning INTE 5711 Creative Designs for Learning INTE 6930 Learning Agency/Internship	INTE 5670 Crafting Synchronous Learning INTE 5010 Humanizing Learning Design INTE 6930 Learning Agency/Internship	INTE 5200 Designing Online Learning Experiences INTE 5340 Learning with Digital Stories INTE 5680 Producing Media for Learning INTE 6930 Learning Agency/Internship

Digital and Inclusive Pedagogies (DTIP) Certificate

The Digital and Inclusive Pedagogies certificate is designed for primary, secondary, and postsecondary educators who seek to expand their capacity to design, facilitate, and evaluate inclusive digital learning environments. The program aligns with current trends in educational innovation, addressing urgent needs for equitable digital teaching practices, inclusive learning design, and competency in emerging technologies. Note: If you start the certificate in a term and are unable to schedule the required course (e.g., you start in summer, complete the two available summer courses and then the two available fall courses), contact Dr. Joni Dunlap to work out an alternative plan for the certificate.

Required course:

- ☐ INTE 5360 Critical Digital Pedagogy

Recommended electives, select **THREE** courses:

- ☐ INTE 5010 Humanizing Learning Design
- ☐ INTE 5711 Creative Designs for Learning
- ☐ INTE 5320 Games and Learning
- ☐ INTE 5340 Learning with Digital Stories
- ☐ INTE 5750 AI-Enhanced Pedagogy

Fall	Spring	Summer
INTE 5711 Creative Designs for Learning	INTE 5010 Humanizing Learning Design	INTE 5320 Games and Learning
INTE 5750 AI-Enhanced Pedagogy: Teaching with and About Artificial Intelligence	INTE 5360 Critical Digital Pedagogy	INTE 5340 Learning with Digital Stories

Undergraduate Minor and Certificate: Planned Schedule for Digital Media Design for Learning

Courses are online | Courses are 3 credits unless noted | Course and instructor information is subject to change

The Digital Media Design for Learning minor focuses on using digital and social media platforms and technologies to design and produce accessible materials and learning experiences for people in school, organizational, and community settings. See below for the requirements for the 15-credit minor; the 12-credit certificate requires completion of any four courses listed below.

Required, recommended as a first course in the minor:

- ☐ INTE 4100 Learner-Centered Design

Select four courses from the following options:

- ☐ INTE 4010 Humanizing Learning Design
- ☐ INTE 4320 Games and Learning
- ☐ INTE 4340 Learning with Digital Stories
- ☐ INTE 4680 Producing Media for Learning
- ☐ INTE 4660 Developing Self-paced Online Modules
- ☐ INTE 4711 Creative Designs for Learning

Fall	Spring	Summer
INTE 4100 Learner-Centered Design	INTE 4100 Learner-Centered Design	INTE 4320 Games and Learning
INTE 4660 Developing Self-paced Online Modules	INTE 4010 Humanizing Learning Design	INTE 4340 Learning with Digital Stories
INTE 4711 Creative Designs for Learning		INTE 4680 Producing Media for Learning