The Charles D. Close School of Entrepreneurship

About the School

The Charles D. Close School of Entrepreneurship prepares students to develop their entrepreneurial mindset and either launch new ventures or become innovative change agents within corporate settings.

Taught by experienced, entrepreneurial faculty, The Close School’s masters programs are built to supplement students’ existing knowledge with an entrepreneurial mindset and provide the skills to launch a new venture or innovate within established companies. The Close School’s programs provide experiential learning opportunities, collaborative work environments, and a world-class network of faculty. Courses in Close focus on professional, entrepreneurial characteristics that differentiate students within their fields, such as initiative, calculated risk-taking, value creation, adaptability, creativity, and problem-solving. With a broad definition of entrepreneurship encompassing more than the technical process of launching new companies, the school’s curriculum emphasizes developing the entrepreneur as a person as well as teaching the process of entrepreneurship.

Additionally, Drexel’s Baiada Institute for Entrepreneurship offers a new-venture incubator as well as physical and virtual resources, including mentoring, competitions, workshops, and individual physical space for students to embark on their next big idea. Enlightened by the entrepreneurial mindset, students graduate ready to develop a culture of innovation within their companies or launch new ventures into the world. The next generation of leadership begins here.

Majors

• Entrepreneurship and Innovation (MS) (p. 2)
• Transdisciplinary Science, Computing, Engineering and Design (MS) (p. 4)

Minors

• Entrepreneurship and Innovation (p. 6)

Certificates

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• Social Entrepreneurship (p. 10)

Entrepreneurship and Innovation

Major: Entrepreneurship and Innovation
Degree Awarded: Master of Science (MS)
Calendar Type: Quarter
Minimum Required Credits: 45.0
Co-op Option: None
Classification of Instructional Programs (CIP) code: 52.0701
Standard Occupational Classification (SOC) code: 11-1011; 11-1021; 11-9199

About the Program

The Charles D. Close School of Entrepreneurship is founded on the principle that entrepreneurship encompasses more than starting a new venture. Entrepreneurship is a habit of mind and an attitude; a skill set applicable to pursuing innovation in both personal and career contexts; as well as an approach to life built around innovative thinking, calculated daring, and proactive behavior.

The MS in Entrepreneurship and Innovation is designed for recent graduates or working professionals who wish to increase their knowledge of and experiences in innovation and entrepreneurship. The MS focuses on developing the entrepreneurial mindset and the skills associated with new-venture creation and corporate innovation.

Additional Information

For more information about the MS in Entrepreneurship and Innovation, please contact Rita Berson (rk25@drexel.edu).

Degree Requirements

Required Courses

<table>
<thead>
<tr>
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<td>ENTP 631</td>
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<td>MGMT 670</td>
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Choose Your Entrepreneurial Path

6.0
### Sample Plan of Study

#### First Year

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<th>Semester</th>
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<th>Winter Credits</th>
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**Total Credits 45**

### Entrepreneurship and Innovation Faculty

Nick Bayer, BS (Cornell). Adjunct Instructor.

Roy Carriker, PhD (University of Connecticut). Teaching Professor.

Donna De Carolis, PhD (Temple University) Founding Dean, Silverman Family Professor of Entrepreneurial Leadership.

Michael Kurzeja, MBA (Grantham University). Adjunct Instructor.

Roger Lee, MS (Drexel University). Adjunct Teaching Professor.

Barrie Litzky, PhD (Drexel University). Associate Professor.

Larissa Milne, MBA (Drexel University). Adjunct Assistant Professor.

Dean Muser, BS (Drexel University). Adjunct Instructor.

Ozlem Ogtuveren-Gonul, PhD (Gazi University, Ankara, Turkey). Assistant Teaching Professor. Entrepreneurship education, Entrepreneurial failure, Entrepreneurial mindset, Ideation, Social capital, Person-job fit, Person-organization fit, Social entrepreneurship.

Scott Quitel, JD, MBA (Temple University). Associate Teaching Professor. Novel ecosystems; Ecological impacts of climate change, rising sea level, and saltwater intrusion; Water quality and aquatic ecosystem health; Organic, lightly structured education.

Charles Sacco, MBA (Drexel University) Associate Dean for Strategy and Innovation; Director of the Baiada Institute for Entrepreneurship.
About the Program

New industries and product categories, such as wearable devices, consumer robotics, and the “Internet of Things,” have emerged from a combination of new technologies as well as a human-centered approach to interaction with technology. More and more, companies pursuing these areas seek hybrid employees combining both technical and creative skills, capable of integrating and implementing advances across multiple disciplines to further innovation. The Transdisciplinary Science, Computing, and Engineering Design (TranSCEND) MS program aims to prepare students for these opportunities by combining graduate-level classes in science, engineering, and computing with hands-on, collaborative project-based courses focusing on the development of physical devices and artifacts. The curriculum includes a six-month graduate co-op experience to gain real-world experience with collaborative project development. Program participants will be able to engage with boundary-crossing research projects, such as advanced functional fabrics, performing arts technology, humanoid robotics, and learning technologies at Drexel’s ExCITe (Expressive & Creative Interaction Technologies) Center.

Transdisciplinary work refers to a deeply collaborative process in which questions are approached through an integrated conceptual framework combining methods and approaches from different disciplines to illuminate problems and solutions in new ways. The TranSCEND program seeks to develop transdisciplinarity within individuals, equipping students with both the technical depth and the broader contextual experience to succeed in today’s technology-driven industries.

The TranSCEND MS combines a strong foundation of technical knowledge with the creative, expressive, and collaborative exploration of new technology design. This intensive program emphasizes learning through world-ready projects and collaborative experiences including direct industry engagement through a graduate co-op. Core TranSCEND MS activities (courses, research opportunities, academic advising, and industry engagement) are structured around a transdisciplinary philosophy to enable a broader range of student-faculty and student-student collaborations than traditional graduate technical programs. These principles and practices are not only integrated through courses, but also through the interactions between students pursuing a diversity of projects.

Additional Information

For more information about the program, please visit the TranSCEND MS (https://drexel.edu/info/transcend/) webpage on the ExCITe Center website.

Jillian Reilly
Student Programs Coordinator, ExCITe Center
jmreilly@drexel.edu
215-895-6635

Admission Requirements

The TranSCEND MS program is an advanced and highly selective program of study. Successful applicants will have a baccalaureate degree in an engineering, computing, and/or scientific or closely related field, or substantial demonstrated facility in one of those fields (e.g., an undergraduate minor with significant project work). Candidates should have a minimum 3.0 undergraduate GPA.

Candidates may, at their option, submit a portfolio of prior work to be considered by program faculty and staff during the admissions process.

Degree Requirements

<table>
<thead>
<tr>
<th>Required Courses</th>
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<td>SCED 503 Collaborative Laboratory III</td>
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<td>ENTP 690 The Lean Launch</td>
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### Thesis
- SCED 600 Masters Thesis Preparation 3.0
- SCED 690 Masters Thesis Research 6.0

### Core Electives
- CS 501 Introduction to Programming
- DIGM 501 New Media: History, Theory and Methods
- DSRE 625 Technologies of Making
- ENTP 501 Entrepreneurship Practice & Mindset
- FASH 504 Materials Exploration
- INFO 540 Perspectives on Information Systems
- PSY 512 Cognitive Psychology
- SCED 521 Entertainment Technologies
- SCTS 501 Introduction to Science, Technology and Society

### Disciplinary Electives
- ANIM 588 Spatial Data Capture
- CS 502 Data Structures and Algorithms
- CS 503 Systems Basics
- CS 510 Introduction to Artificial Intelligence
- CS 511 Robot Laboratory
- CS 530 Developing User Interfaces
- CS 537 Interactive Computer Graphics
- DIGM 508 Digital Cultural Heritage
- DSRE 620 Design Problem Solving
- DSRE 630 Data Visualization for Design Professionals
- ECES 558 Digital Signal Processing for Sound & Hearing
- ECES 559 Processing of the Human Voice
- ECES 660 Machine Listening and Music IR
- ENTP 535 Social Entrepreneurship
- EDLT 633 Designing Virtual Communities
- EDLT 811 Designing and Developing Multimedia Applications For Learning
- GMAP 547 Serious Games
- GMAP 548 Experimental Games
- INFO 608 Human-Computer Interaction
- INFO 690 Understanding Users: User Experience Research Methods
- INFO 691 Prototyping the User Experience
- PSY 600 Current Topics in Applied Cognitive and Brain Sciences
- PSY 611 Computer-Based Research Methods for Psychological Research
- SCED 510 Industry Collaborative
- SCTS 504 Science, Technology & Society Theories
- SCTS 884 Historiography of Science

### Total Credits 45.0

## Sample Plan of Study

### Full-time Plan of Study

**NOTE:** Any term with less than 4.5 credits will not be eligible for Financial Aid.

### First Year

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### Second Year

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Total Credits 45
Part-time Plan of Study

NOTE: Any term with less than 4.5 credits will not be eligible for Financial Aid.

First Year (Part-Time)

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Second Year (Part-Time)

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Total Credits 45

Transdisciplinary Science, Computing, and Engineering Design Faculty

Genevieve Dion, MFA (University of the Arts) Director, Center for Functional Fabrics. Associate Professor. Industrial designer, wearable artist, new materials technology research.

Kareem Edouard, PhD (Stanford University). Assistant Professor. Educational technology; internet-based STEM learning; equity and inclusion in STEM education

Youngmoo Kim, PhD (MIT) Director, Expressive and Creative Interactive Technologies (ExCItE) Center. Professor. Audio and music signal processing, voice analysis and synthesis, music information retrieval, machine learning.

Brian Smith, PhD (Northwestern University) Senior Associate Dean of Academic Affairs. Professor. Design of computer-based learning environments, computer science education, human-computer interaction, creativity and innovation; design sciences; informal/everyday learning.

Graduate Minor in Entrepreneurship and Innovation

About the Graduate Minor

The Entrepreneurship and Innovation graduate minor is designed to enrich a graduate student's program via rigorous and applied coursework in the area of entrepreneurship. The skills of entrepreneurial thinking and doing are applicable to students in every master's degree program, as these competencies resonate with student careers both in established companies or new ventures. Students will learn how to communicate complex ideas, evaluate opportunities, learn from failure, and implement innovations.

Program Requirements

| ENTP 501 | Entrepreneurship Practice & Mindset | 3.0 |
| ENTP 611 | Learning from Failure               | 3.0 |
| or ENTP 621 | Innovation & Ideation            | 3.0 |
| ENTP 641 | Innovation in Established Companies | 3.0 |
| ENTP 690 | The Lean Launch                    | 3.0 |

Total Credits 12.0

Additional Information

For more information about the Entrepreneurship and Innovation graduate minor, please contact Rita Berson at rk25@drexel.edu.

Certificate in Corporate Entrepreneurship

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 9.0
Instructional Delivery: Online; Campus
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible
Classification of Instructional Program (CIP) Code: 52.0701
Standard Occupational Classification (SOC) Code: 11-1021

About the Program
The Corporate Entrepreneurship certificate program focuses on the practice and application of entrepreneurial skills within corporations. The program introduces the student to the role of a corporate entrepreneur as change agent. Corporate entrepreneurs will learn to develop relationships with internal and external stakeholders, apply innovation strategies in corporate settings and initiate and lead organizational development and change.

Admission Requirements
Admission requires a four-year bachelor’s degree from a regionally accredited institution in the United States or an equivalent international institution. Applicants who have not received a degree in the United States are required to take a TOEFL.

Questions about this program?
If you have any questions or would like to speak with an advisor, please contact:

Kristen Hayes
Director of Strategic Partnerships
Charles D. Close School of Entrepreneurship
3230 Market Street
Philadelphia, PA 19104
Email: kh3223@drexel.edu

Program Requirements

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<tr>
<th>Corporate Entrepreneurship</th>
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<td>ENTP 631 Building Internal &amp; External Relationships</td>
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<td>ENTP 641 Innovation in Established Companies</td>
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<td>ENTP 681 The Startup Way: How to Drive Innovation in Entrepreneurial Companies</td>
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Total Credits 9.0

Sample Plan of Study

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<td>ENTP 631</td>
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Total Credits 9

Certificate in Foundations of Entrepreneurship I

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 9.0
Instructional Delivery: Online; Campus
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible
Classification of Instructional Program (CIP) Code: 52.0701
Standard Occupational Classification (SOC) Code: 11-1021

About the Program
The Foundations of Entrepreneurship I certificate program focuses on building the entrepreneurial mindset and developing the individual as an entrepreneur. The program introduces a range of foundational tools used by successful entrepreneurs in pursuit of opportunity, beginning with the individual as the cornerstone of enterprise, be it a proprietorship or growing a company.

Admission Requirements
Admission requires a four-year bachelor's degree from a regionally accredited institution in the United States or an equivalent international institution. Applicants who have not received a degree in the United States are required to take a TOEFL.
Questions about this program?
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Program Requirements
Foundations of Entrepreneurship I

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<td>ENTP 671</td>
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Total Credits 9.0

Sample Plan of Study
First Year

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<td>ENTP 515</td>
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</table>

Total Credits 9

Certificate in Foundations of Entrepreneurship II

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 9.0
Instructional Delivery: Online; Campus
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible
Classification of Instructional Program (CIP) Code: 52.0701
Standard Occupational Classification (SOC) Code: 11-1021

About the Program
The Foundations of Entrepreneurship II certificate program focuses on the practice and application of entrepreneurial skills. The program introduces a range of foundational tools used by successful entrepreneurs in pursuit of opportunity, such as using failure as a tool for future success, personal branding, and practicing ideation and design-thinking methodologies to generate novel and executable ideas.

Admission Requirements
Admission requires a four-year bachelor's degree from a regionally accredited institution in the United States or an equivalent international institution. Applicants who have not received a degree in the United States are required to take a TOEFL.

Questions about this program?
If you have any questions or would like to speak with an advisor, please contact:

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Charles D. Close School of Entrepreneurship
3230 Market Street
Philadelphia, PA 19104
Email: kh3223@drexel.edu
Program Requirements

Foundations of Entrepreneurship II

<table>
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<td>ENTP 611</td>
<td>Learning from Failure</td>
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<tr>
<td>ENTP 621</td>
<td>Innovation &amp; Ideation</td>
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Total Credits 9.0

Sample Plan of Study

First Year

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<td>3.0 ENTP 540</td>
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Total Credits 9

Certificate in New Venture Creation

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 9.0
Instructional Delivery: Online; Campus
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible
Classification of Instructional Program (CIP) Code: 52.0701
Standard Occupational Classification (SOC) Code: 11-1021

About the Program

The New Venture Creation certificate program is designed for professionals who are interested in starting their own ventures, working for start-up companies, or preparing for self-employment. The program introduces concepts of new-venture leadership and building a successful start-up team, assessing funding needs and opportunities, and using the Lean Launch methodology.

Admission Requirements

Admission requires a four-year bachelor's degree from a regionally accredited institution in the United States or an equivalent international institution. Applicants who have not received a degree in the United States are required to take a TOEFL.

Questions about this program?

If you have any questions or would like to speak with an advisor, please contact:

Kristen Hayes
Director of Strategic Partnerships
Charles D. Close School of Entrepreneurship
3230 Market Street
Philadelphia, PA 19104
Email: kh3223@drexel.edu

Program Requirements

New Venture Creation

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<td>ENTP 660</td>
<td>Early Stage Venture Funding</td>
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<td>ENTP 690</td>
<td>The Lean Launch</td>
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Total Credits 9.0
Certificate in Social Entrepreneurship

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 9.0
Instructional Delivery: Online; Campus
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible
Classification of Instructional Program (CIP) Code: 52.0701
Standard Occupational Classification (SOC) Code: 11-1021

About the Program
The Social Entrepreneurship certificate program is designed for professionals who are interested in tackling critical social problems within their communities or around the world through building sustainable business models. The program focuses on defining the scope of social problems and developing unique business models and social-impact measurements to create positive social change.

Admission Requirements
Admission requires a four-year bachelor's degree from a regionally accredited institution in the United States or an equivalent international institution. Applicants who have not received a degree in the United States are required to take a TOEFL.

Questions about this program?
If you have any questions or would like to speak with an advisor, please contact:

Kristen Hayes
Director of Strategic Partnerships
Charles D. Close School of Entrepreneurship
3230 Market Street
Philadelphia, PA 19104
Email: kh3223@drexel.edu

Program Requirements

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