



DREXEL UNIVERSITY

Charles D. Close
School of Entrepreneurship

CATALOG

2022-2023

UNDERGRADUATE



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The Charles D. Close School of Entrepreneurship

The Charles D. Close School of Entrepreneurship

In today's extremely competitive global workforce, there is an increased value and demand for initiative, independence, and innovation. The Charles D. Close School of Entrepreneurship has pioneered an approach to entrepreneurship education that addresses this need by teaching students to be entrepreneurial thinkers and doers.

Nationally ranked and accredited, the Charles D. Close School offers unique and innovative programs, such as our three-year degree, and we believe that all students have the potential to be innovative, and to take their ideas and make them a reality. At the Close School of Entrepreneurship, we believe entrepreneurship education empowers everyone.

- We teach an entrepreneurial mindset
- We teach the business skills and processes to start new ventures and also to lead innovation in an established company
- We provide practical experience and strong entrepreneurship resources. We support student startup ideas and ventures, and allow students to gain valuable entrepreneurial experience

Majors

- Entrepreneurship and Innovation (BA) (p. 3)
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Minors

- Corporate Entrepreneurship (p. 19)
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Certificate

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Background

The Charles D. Close School of Entrepreneurship is the first accredited, degree-granting school of entrepreneurship, independent of a business school, in the nation. The Close School is founded on the principle that every student should have the opportunity to dream big and pursue their passions. We encourage, educate, and enable innovation and entrepreneurship.

Why is learning about entrepreneurship important to your career? There are several significant reasons. First, entrepreneurial skills will protect you in a weak job market by giving you the tools to create your own jobs. Second, learning about entrepreneurship broadens your perspective about ways to pursue your career entrepreneurially, rather than on traditional pathways in particular fields. Third, today, more than ever, companies seek employees with some type of entrepreneurial experience. Leading companies of all sizes understand that they must **innovate** to survive and prosper. Students who have developed an entrepreneurial mindset have strong communication skills, recognize how to take

initiative, and know how to execute. By hiring entrepreneurial individuals, these companies are bringing innovative perspectives into the workplace.

Entrepreneurship is much more than the process of starting a company. Entrepreneurship is a habit of mind and an attitude; a skill set applicable to pursuing innovation in business, personal, and career contexts and an approach to life built around innovative thinking, calculated daring, and proactive behavior. Our goal is to infuse **entrepreneurial thinking and doing** in our courses and related programs.

Our courses and programs are designed to be experiential and interdisciplinary. They are available to all students throughout the University, regardless of major. We offer a fully funded Entrepreneurship Co-op and courses that provide small amounts of seed funding for new student businesses. Through our Baiada Institute for Entrepreneurship, an array of programs and business competitions enhance your entrepreneurial experience.

At the Close School of Entrepreneurship, we believe that **all** students have the potential to be innovative; to take their ideas, in whatever context, and make them a reality. To elicit the entrepreneur in you, we offer students who are interested in learning about the process of innovation and entrepreneurship various curricular and co-curricular paths to becoming an "entrepreneur."

Goals and Objectives

- Present entrepreneurship as a way to think, learn, and succeed in terms of values, behaviors, and process.
- Provide a cutting-edge approach to entrepreneurship education.
- Complement and enhance undergraduate and graduate education outcomes for students by developing entrepreneurial thinking within the curriculum.
- Encourage and create a supportive academic and physical environment to allow the pursuit of student passions and big ideas.
- Provide students, upon graduation with three competencies:
 1. The entrepreneurial mindset.
 2. An entrepreneurship toolkit.
 3. Expertise in a specific content area of their choosing.

School Offerings

The Charles D. Close School of Entrepreneurship offers students various paths to becoming an "entrepreneur." The School is based on the premise that all students have the potential to be innovative: to take their ideas, in whatever context, and make their ideas a reality. The curricular and co-curricular programs are formulated to accommodate students' potential paths to learning and living entrepreneurship.

Academic Programs

The Close School offers:

- BA and an MS in Entrepreneurship and Innovation;
- Undergraduate minors in Corporate Entrepreneurship, Entrepreneurship and Innovation, and Social Entrepreneurship;
- Graduate minor in Entrepreneurship and Innovation;
- Undergraduate certificate in Entrepreneurship;

- Five, stackable graduate certificates:
 - Corporate Entrepreneurship
 - Foundations of Entrepreneurship I
 - Foundations of Entrepreneurship II
 - Social Entrepreneurship
 - New Venture Creation

In addition, the Close School offers to all Drexel students, many elective courses with minimal or no prerequisites that integrate entrepreneurship education with all other academic disciplines at the University.

Through excellent teaching faculty (serial entrepreneurs and seasoned executives) and tenured/tenure-track faculty, the Close School cultivates a research agenda, providing thought leadership to academics and practitioners. Finally, the Close School of Entrepreneurship collaborates with regional and national organizations and the entrepreneurial community to advance innovation and entrepreneurial initiatives.

Entrepreneurship Co-Op

The co-op experience is the hallmark of a Drexel education. Drexel students intersperse one or three six-month periods of work within their academic plans of study. By weaving together scholarly and practical experiences, Drexel students graduate with a unique set of skills that open up a diverse array of professional opportunities upon graduation.

Entrepreneurship and Innovation

Major: Entrepreneurship and Innovation

Degree Awarded: Bachelor of Arts (BA)

Calendar Type: Quarter

Minimum Required Credits: 181.0

Co-op Options: Three Co-op (Five years); One Co-op (Four years); No Co-op (Four years)

Classification of Instructional Programs (CIP) code: 52.0701

Standard Occupational Classification (SOC) code: 11-1011; 11-1021; 11-9199

About the Program

The BA in Entrepreneurship and Innovation is designed to teach entrepreneurship as a habit of mind that applies to students in both life and career contexts. Entrepreneurship is about being proactive, enterprising, and innovative. Our holistic approach to teaching challenges students to think and act as an entrepreneur within established companies, in working for small and growing startups, in starting a new venture or self-employment, and in their overall approach to their personal and professional lives. We have developed a curriculum that teaches students entrepreneurial skills such as resilience, collaboration, opportunity recognition, self-efficacy, negotiation, and effective communication.

The program features interdisciplinary coursework in collaboration with other Drexel colleges and schools, providing entrepreneurship students with the opportunity to take classes with future engineers, scientists, artists, and business and community leaders.

Additional Information

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

Degree Requirements

Required Courses:

- Entrepreneurial Mindset: This is a suite of courses that addresses individual entrepreneurial skills such as resiliency, initiative, innovative thinking, and communication. These courses develop personal and interpersonal skills needed to be a successful “entrepreneur” in several contexts.
- The Process of Entrepreneurship: This set of required courses covers a broad range of topics that immerse students in the practice of entrepreneurship.
- A choice of three concentration areas: Social Entrepreneurship, Corporate Entrepreneurship, and New Venture Creation.

The Close School recognizes that many undergraduates have already started their own companies. To encourage this entrepreneurial spirit within our student body, the Close School, in collaboration with the Steinbright Career Development Center, offers to all Drexel undergraduate students the opportunity to use their own company as their co-op experience. Students who qualify for this opportunity receive a salary (\$15,000), like other co-op students who work for established companies and organizations. Most importantly, students participating in the entrepreneurship co-op receive weekly mentoring from Close School faculty.

The Baiada Institute for Entrepreneurship

The Baiada Institute is the cradle of entrepreneurship at Drexel University. Open to all students at Drexel, Baiada provides student entrepreneurs the physical space, mentoring, and resources to start their first (or next) big thing. The Baiada Institute translates the Close School of Entrepreneurship (<http://www.drexel.edu/close/>)’s groundbreaking curriculum (<http://www.drexel.edu/close/academics/courses/>) into disruptive ideas led by innovative companies, created by Drexel students from all academic disciplines.

4 Entrepreneurship and Innovation

- Electives: Constitutes a group of courses from the Close School and across the University that reflect the themes of innovation and entrepreneurship.
- Minors: All entrepreneurship majors are required to select an academic minor, which will provide domain expertise in their area of interest. Students may select from over 150 minors offered by the University.

General Education Requirements

CIVC 101	Introduction to Civic Engagement	1.0
COM 230	Techniques of Speaking	3.0
COOP 101	Career Management and Professional Development *	1.0
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
PHIL 105	Critical Reasoning	3.0
UNIV C101	The Drexel Experience	1.0

Two Mathematics Courses (MATH) 6.0-8.0

Two Science Courses 6.0-8.0

Choose from Bioscience and Biotechnology (BIO), Chemistry (CHEM), Food Science (FDSC), Geoscience (GEO), Physics (PHYS), Physics-Environmental Science (PHEV)

Social/Behavioral Science 6.0

Choose 2 courses from Anthropology (ANTH), Communications (COM), Economics (ECON), History (HIST), Political Science (PSCI), Psychology (PSY), Sociology (SOC)

ECON 201 Principles of Microeconomics 4.0

Choose one of the following writing intensive courses: 3.0

COM 270 [WI] Business Communication

COM 310 [WI] Technical Communication

COM 317 [WI] Environmental Communication

COM 320 [WI] Science Writing

COM 375 [WI] Grant Writing

ECON 326 [WI] Economic Ideas

PSY 240 [WI] Abnormal Psychology

PSY 245 [WI] Sports Psychology

PSY 250 [WI] Industrial Psychology

Three Humanities/Fine Arts Courses 9.0

Choose from Africana Studies (AFAS), English (ENGL), Humanities-General (HUM), Global Studies (GST), Jewish Studies (JWST), Philosophy (PHIL), Women's & Gender Studies (WGST); Any course from the Westphal College of Media Arts and Design

Two Technology Courses 6.0

Choose from Computer Science (CS), Information Science & Systems (INFO), Management Information Systems (MIS), Software Engineering (SE)

Two Ethics Courses 6.0

Select two of the following:

PHIL 251 Ethics

PHIL 301 Business Ethics

PHIL 305 Ethics and the Media

PHIL 311 Ethics and Information Technology

PHIL 315 Engineering Ethics

PHIL 321 Biomedical Ethics

PHIL 323 Organizational Ethics

PHIL 335 Global Ethical Issues

Three Language Courses (Foreign Language or Computer Science) ** 9.0-12.0

Arabic (ARBC), Chinese (CHIN), French (FREN), German (GER), Japanese (JAPN), Korean (KOR), Spanish (SPAN) OR one of the following CS Language sequence:

CS 150 Computer Science Principles

CS 171 Computer Programming I

CS 172 Computer Programming II

Entrepreneurship Requirements

ACCT 120	Accounting Essentials for New Ventures	4.0
BLAW 346	Entrepreneurial Law	4.0
ENTP 100	Innovation Ecosystem	1.0
ENTP 105	Entrepreneurial Thinking	3.0
ENTP 205	Ready, Set, Fail	3.0

ENTP 215	Building Entrepreneurial Teams	3.0
ENTP 225 [WI]	Mindfulness & Wellbeing ([WI])	3.0
ENTP 250	Ideation	3.0
ENTP 410 [WI]	Thought Leadership	3.0
ENTP 440	Launch It!: Early Stage	3.0
MKTG 201	Introduction to Marketing Management	4.0
Concentration Requirements		12.0
Select a concentration from the following options:		
Social Entrepreneurship		
ENTP 270	Social Entrepreneurship	
ENTP 275	Diversity Entrepreneurship	
ENTP 290	An Entrepreneur's Introduction to Land: Its Essence, Ethics, and Opportunity	
or ENTP 390	Energy Entrepreneurship	
ENTP 375	3BL - Triple Bottom Line	
Corporate Entrepreneurship		
ENTP 285	Organizational Development and Change for Corporate Entrepreneurs	
ENTP 329	Entrepreneurship & New Technologies	
or MKTG 347	New Product Development	
ENTP 340	Managing Entrepreneurial Growth	
ENTP 385	Innovation in Established Companies	
New Venture Creation		
ENTP 210 [WI]	Leading Start-Ups	
ENTP 325	Early Stage Venture Funding	
ENTP 450	Launch It!	
MKTG 364	Marketing for New Ventures	
Entrepreneurship Electives ***		15.0
Select five of the following:		
CRTV 303	Creativity in the Workplace	
DSMR 231	Retail Operations	
ECON 202	Principles of Macroeconomics	
ENTP 101	Life Strategies	
ENTP 102	Life Strategies II	
ENTP 260	Curiosity, Ecology, Empathy & Ethic	
ENTP 350	Dynamics of the Family Firm	
ENTP 360	Franchising	
ENTP 370	Global Entrepreneurship	
ENTP 445	GreenStart: Applying Entrepreneurship to Cultivate Sustainable Solutions	
ENTP T180	Special Topics in Entrepreneurship	
ENTP T280	Special Topics in Entrepreneurship	
ENTP T380	Special Topics in Entrepreneurship	
ENTP T480	Special Topics in Entrepreneurship	
FIN 150	Financial Literacy	
MIS 200	Management Information Systems	
MKTG 344	Professional Personal Selling	
PROD 101	History and Analysis of Product Design	
Required Academic Minor †		24.0
Free Electives		23.0-24.0
Total Credits		181.0-189.0

- * Students not participating in co-op will take one additional credit of Free Elective instead of COOP 101. Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major. COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.
- ** A computer science course cannot satisfy both a technology requirement and a computer language requirement.
- *** BA students may also take any ENTP course not in their chosen concentration to meet the entrepreneurship elective requirement.
- † BA students are required to complete an academic minor offered by any other Drexel College or School.

Writing-Intensive Course Requirements

In order to graduate, all students must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore

year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/writing-intensive-courses/>) at the University Writing Program (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/>). (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/>) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

5-Year Coop Spring/Summer Cycle

First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ENGL 101 or 111	3.0 CIVC 101	1.0 ACCT 120	4.0 VACATION	
ENTP 100	1.0 ENGL 102 or 111	3.0 COOP 101	1.0	
ENTP 105	3.0 ENTP 205	3.0 ENGL 103 or 113	3.0	
ENTP 250	3.0 ENTP 215	3.0 ENTP 225	3.0	
UNIV C101	1.0 Foreign or Computer Language	3.0-4.0 Foreign or Computer Language	3.0-4.0	
Mathematics Course	3.0-4.0 Mathematics Course	3.0-4.0 Social or Behavioral Science Course	3.0	
	14-15	16-18	17-18	0

Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ECON 201	4.0 COM 230	3.0 COOP EXPERIENCE	COOP EXPERIENCE	
ENTP 440	3.0 PHIL 105	3.0		
Foreign or Computer Language	3.0-4.0 ENTP Elective Course	3.0		
Free Elective	3.0 Required Minor Course	3.0		
Science Course	3.0-4.0 Science course	3.0-4.0		
	16-18	15-16	0	0

Third Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
MKTG 201	4.0 Concentration Course	3.0 COOP EXPERIENCE	COOP EXPERIENCE	
Concentration Course	3.0 Ethics Course	3.0		
Fine Arts/Humanities Course	3.0 Required Minor Course	3.0		
Required Minor Course	3.0 Social/Behavioral Science course	3.0		
Technology Course	3.0 Technology Course	3.0		
	16	15	0	0

Fourth Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BLAW 346	4.0 Concentration Requirement	3.0 COOP EXPERIENCE	COOP EXPERIENCE	
ENTP Elective Course	3.0 ENTP Elective Course	3.0		
Fine Arts/Humanities Course	3.0 Fine Arts/Humanities Course	3.0		
Non-major Writing Intensive Course (WI)	3.0 Free Elective Course	3.0		
Required Minor Course	3.0 Required Minor Course	3.0		
	16	15	0	0

Fifth Year

Fall	Credits Winter	Credits Spring	Credits
ENTP 410	3.0 ENTP Elective Course	3.0 ENTP Elective Course	3.0
Concentration Requirement	3.0 Required Minor Course	3.0 Free Electives	8.0
Ethics Course	3.0 Free Electives	9.0 Required Minor Course	3.0

Required Minor Course	3.0		
	12	15	14

Total Credits 181-188

4-Year Coop Spring/Summer Cycle

First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ENGL 101 or 111	3.0 CIVC 101	1.0 ACCT 120	4.0 VACATION	
ENTP 100	1.0 ENGL 102 or 112	3.0 ENGL 103 or 113	3.0	
ENTP 105	3.0 ENTP 205	3.0 ENTP 225	3.0	
ENTP 250	3.0 ENTP 215	3.0 Foreign or Computer Language	3.0-4.0	
UNIV C101	1.0 Foreign or Computer Language	3.0-4.0 Social or Behavioral Science Course	3.0	
Mathematics Course	3.0-4.0 Mathematics Course	3.0-4.0		
	14-15	16-18	16-17	0

Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ECON 201	4.0 COM 230	3.0 COOP 101	1.0 Concentration Course	3.0
ENTP 440	3.0 PHIL 105	3.0 MKTG 201	4.0 Ethics Course	3.0
Foreign or Computer Language	3.0-4.0 ENTP Elective Course	3.0 Concentration course	3.0 Required Minor Course	3.0
Free Elective	3.0 Required Minor course	3.0 Fine Arts/Humanities Course	3.0 Social/Behavioral Science Course	3.0
Science Course	3.0-4.0 Science course	3.0-4.0 Required Minor Course	3.0 Technology Course	3.0
		Technology Course	3.0	
	16-18	15-16	17	15

Third Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
BLAW 346	4.0 Concentration Requirement	3.0 COOP EXPERIENCE	COOP EXPERIENCE	
ENTP Elective Course	3.0 ENTP Elective Course	3.0		
Fine Arts/Humanities Course	3.0 Fine Arts/Humanities Course	3.0		
Non-major Writing-Intensive Course (WI)	3.0 Free Elective	3.0		
Required Minor Course	3.0 Required Minor Course	3.0		
	16	15	0	0

Fourth Year

Fall	Credits Winter	Credits Spring	Credits
ENTP 410	3.0 ENTP Elective Course	3.0 ENTP Elective	3.0
Concentration Requirement	3.0 Required Minor Course	3.0 Free Electives	8.0
Ethics Course	3.0 Free Electives	9.0 Required Minor Course	3.0
Required Minor Course	3.0		
	12	15	14

Total Credits 181-188

4-Year No Coop Plan of Study

First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ENGL 101 or 111	3.0 CIVC 101	1.0 ACCT 120	4.0 VACATION	
ENTP 100	1.0 ENGL 102 or 112	3.0 ENGL 103 or 113	3.0	
ENTP 105	3.0 ENTP 205	3.0 ENTP 225	3.0	
ENTP 250	3.0 ENTP 215	3.0 Foreign or Computer Language	3.0-4.0	
UNIV C101	1.0 Foreign or Computer Language	3.0-4.0 Social or Behavioral Science Course	3.0	
Mathematics Course	3.0-4.0 Mathematics Course	3.0-4.0		
	14-15	16-18	16-17	0

Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ECON 201	4.0 COM 230	3.0 MKTG 201	4.0 VACATION	
ENTP 440	3.0 PHIL 105	3.0 Concentration Course	3.0	
Foreign or Computer Language	3.0-4.0 ENTP Elective Course	3.0 Fine Arts/Humanities Course	3.0	
Free Elective	3.0 Required Minor Course	3.0 Required Minor Course	3.0	
Science Course	3.0-4.0 Science Course	3.0-4.0 Technology Course	3.0	
	16-18	15-16	16	0

Third Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
Concentration Course	3.0 BLAW 346	4.0 Concentration Requirement	3.0 VACATION	
Ethics Course	3.0 ENTP Elective Course	3.0 ENTP Elective Course	3.0	
Required Minor Course	3.0 Fine Arts/Humanities Course	3.0 Fine Arts/Humanities Course	3.0	
Social/Behavioral Science Course	3.0 Non-Major Writing-Intensive Course (WI)	3.0 Free Elective	3.0	
Technology Course	3.0 Required Minor Course	3.0 Required Minor Course	3.0	
	15	16	15	0

Fourth Year

Fall	Credits Winter	Credits Spring	Credits
ENTP 410	3.0 ENTP Elective Course	3.0 ENTP Elective Course	3.0
Concentration Requirement	3.0 Required Minor Course	3.0 Free Electives	9.0
Ethics Course	3.0 Free Electives	9.0 Required Minor Course	3.0
Required Minor course	3.0		
	12	15	15

Total Credits 181-188

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 Ogutveren-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 educationCharles Sacco, MBA (*Drexel University*) *Associate Dean for Strategy and Innovation; Director of the Baiada Institute for Entrepreneurship.*Damian Salas, MBA (*Drexel University*) *Associate Dean for Academic Partnerships.* Assistant Teaching Professor. Strategic Entrepreneurship; Entrepreneurial Growth; Human Capital ManagementZahed Subhan, PhD, JD/LLB (Law) (*University of Leeds (UK); London University*). Teaching Professor. Marketing, Entrepreneurship, Innovation Management

Entrepreneurship and Innovation Three-Year Option

*Major: Entrepreneurship and Innovation**Degree Awarded: Bachelor of Arts (BA)*

Calendar Type: Quarter

Minimum Required Credits: 181.0

Co-op Options: None

Classification of Instructional Programs (CIP) code: 52.0701

Standard Occupational Classification (SOC) code: 11-1011

About the Program

The three-year BA in Entrepreneurship and Innovation program is a unique, accelerated plan of study that teaches entrepreneurship as a habit-of-mind that applies to both the student's career and life. Entrepreneurship is about being proactive, enterprising, and innovative. The three-year degree in Entrepreneurship and Innovation offered by the Close School is rigorous and sustains all the standards of our four- or five-year degree programs. It is a degree that is particularly appealing to the student who is determined, disciplined, and goal-oriented—as we find that many entrepreneurship students are.

Our holistic approach to teaching challenges students to think and act as an entrepreneur within companies, startups, or self-employment. We have developed a curriculum that teaches resilience, collaboration, negotiation, and communication. Students will learn how to manage growth, secure funding, or manage a family firm. We stress interdisciplinary work and flexibility with all Drexel schools through the required academic minor and offer three-year students advanced experiential learning in our exclusive Entrepreneurship Practicum. Students will also have access to the Baiada Institute for Entrepreneurship (<https://drexel.edu/baiada/>).

This is a rigorous program designed for the highly ambitious student ready to enter the workforce early, planning to launch a new venture upon graduation, or lead innovation in an established company. Ideal students are high achievers or self-starters.

Benefits of the Three-Year Degree

One of the main benefits of this program is that students receive the same education and experience from a typical four- or five-year degree program but in just three years. This results in:

- Decreased living expenses for 1-2 years
- Better utilization of school time and opportunities
- Expedited path to graduation and career advancement
- A unique, custom-designed practicum

The three-year degree not only takes a shorter time to achieve, but also offers students opportunities for funding, mentoring, and incubator space while giving them real-world experience and the ability to work alongside some of Philadelphia's most driven and creative young entrepreneurs.

The three-year degree program offers practical experience and business education from highly regarded entrepreneurs who have been involved in many successful startups and ventures of their own. Our professors and mentors are TEDx speakers, experienced business executives, and serial entrepreneurs ready to help you learn and build your entrepreneurial mindset.

Questions about this program?

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

Rita Berson

Assistant Director of Academic Advising and Student Success

Charles D. Close School of Entrepreneurship

3230 Market Street

Philadelphia, PA 19104

Email: rk25@drexel.edu (rk25@drexel.edu)

Degree Requirements

General Education Requirements

CIVC 101	Introduction to Civic Engagement	1.0
COM 230	Techniques of Speaking	3.0
ECON 201	Principles of Microeconomics	4.0
ENGL 101 or ENGL 111	Composition and Rhetoric I: Inquiry and Exploratory Research English Composition I	3.0
ENGL 102 or ENGL 112	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing English Composition II	3.0
ENGL 103 or ENGL 113	Composition and Rhetoric III: Themes and Genres English Composition III	3.0
PHIL 105	Critical Reasoning	3.0
UNIV C101	The Drexel Experience	1.0

Ethics Requirements - Select two of the following:	6.0
PHIL 251 Ethics	
PHIL 301 Business Ethics	
PHIL 305 Ethics and the Media	
PHIL 311 Ethics and Information Technology	
PHIL 315 Engineering Ethics	
PHIL 321 Biomedical Ethics	
PHIL 323 Organizational Ethics	
PHIL 335 Global Ethical Issues	
Humanities/Fine Arts Requirements (2 courses) *	6.0
Language Requirements (3 courses) **	9.0-12.0
Math (MATH) Requirements (2 courses)	6.0-8.0
Science Requirements (2 courses) ***	6.0-8.0
Social/Behavioral Science Requirements (2 courses) †	6.0
Technology Requirement (1 course) ††	3.0
Writing-Intensive (non-major) (1 course)	3.0
ENTP Core Requirements	
ACCT 120 Accounting Essentials for New Ventures	4.0
BLAW 346 Entrepreneurial Law	4.0
ENTP 100 Innovation Ecosystem	1.0
ENTP 105 Entrepreneurial Thinking	3.0
ENTP 205 Ready, Set, Fail	3.0
ENTP 215 Building Entrepreneurial Teams	3.0
ENTP 225 [WI] Mindfulness & Wellbeing	3.0
ENTP 250 Ideation	3.0
ENTP 395 Entrepreneurship Practicum	12.0
ENTP 410 [WI] Thought Leadership	3.0
ENTP 440 Launch It!: Early Stage	3.0
MKTG 201 Introduction to Marketing Management	4.0
ENTP Electives - Select 7 of the following:	21.0
DSMR 231 Retail Operations	
ENTP 101 Life Strategies	
ENTP 102 Life Strategies II	
ENTP 210 [WI] Leading Start-Ups	
ENTP 260 Curiosity, Ecology, Empathy & Ethic	
ENTP 270 Social Entrepreneurship	
ENTP 275 Diversity Entrepreneurship	
ENTP 285 Organizational Development and Change for Corporate Entrepreneurs	
ENTP 325 Early Stage Venture Funding	
ENTP 329 Entrepreneurship & New Technologies	
ENTP 340 Managing Entrepreneurial Growth	
ENTP 350 Dynamics of the Family Firm	
ENTP 360 Franchising	
ENTP 370 Global Entrepreneurship	
ENTP 375 3BL - Triple Bottom Line	
ENTP 385 Innovation in Established Companies	
ENTP 390 Energy Entrepreneurship	
ENTP 445 GreenStart: Applying Entrepreneurship to Cultivate Sustainable Solutions	
ENTP 450 Launch It!	
ENTP T180 Special Topics in Entrepreneurship	
ENTP T280 Special Topics in Entrepreneurship	
ENTP T380 Special Topics in Entrepreneurship	
ENTP T480 Special Topics in Entrepreneurship	
FIN 150 Financial Literacy	
MKTG 344 Professional Personal Selling	
MKTG 347 New Product Development	
PROD 101 History and Analysis of Product Design	
PROD 210 Introduction to Product Design	
Required Specialization Minor	24.0
Free electives	24.0
Total Credits	181.0-188.0

- * Humanities/Fine Arts options: Undergraduate courses (100-499) in Africana Studies (AFAS), English (ENGL), Humanities, General (HUM), Global Studies (GST), Jewish Studies (JWST), Philosophy (PHIL), Women's & Gender Studies (WGST); Any course from the Westphal College of Media Arts and Design (<http://catalog.drexel.edu/undergraduate/collegeofmediaartsanddesign/>)
- ** Language options: Undergraduate courses (100-499) in Arabic (ARBC), Chinese (CHIN), French (FREN), German (GER), Japanese (JAPN), Korean (KOR), Spanish (SPAN) OR the following CS Language sequence: CS 150, CS 171,
A computer science course cannot satisfy both a technology requirement and a computer language requirement.
- *** Science options: Undergraduate courses (100-499) in Bioscience and Biotechnology (BIO), Chemistry (CHEM), Food Science (FDSC), Geoscience (GEO), Physics (PHYS), Physics-Environmental Science (PHEV)
- † Social/Behavioral Science options: Undergraduate courses (100-499) in Anthropology (ANTH), Communications (COM), Economics (ECON), History (HIST), Political Science (PSCI), Psychology (PSY), Sociology (SOC)
- †† Technology options: Undergraduate courses (100-499) in Computer Science (CS), Information Science & Systems (INFO), Management Information Systems (MIS), Software Engineering (SE)

Writing-Intensive Course Requirements

In order to graduate, all students must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/writing-intensive-courses/>) at the University Writing Program (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/>). (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/>) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

Option 1: Summer Classes First Year

First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ENGL 101 or 111	3.0 CIVC 101	1.0 ACCT 120	4.0 ECON 201	4.0
ENTP 100	1.0 ENGL 102 or 112	3.0 ENGL 103 or 113	3.0 Free Elective	3.0
ENTP 105	3.0 ENTP 205	3.0 ENTP 225	3.0 Language Course	4.0
ENTP 250	3.0 ENTP 215	3.0 Language Course	4.0 Required Minor Course	3.0
UNIV C101	1.0 Language Course	4.0 Social/Behavioral Science Course	3.0 Science Course	3.0
Mathematics	3.0 Mathematics Course	3.0		
	14	17	17	17

Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
COM 230	3.0 MKTG 201	4.0 Entrepreneurship Elective	3.0 ENTP 395	12.0
PHIL 105	3.0 Entrepreneurship Elective	3.0 Ethics Course	3.0	
ENTP 440	3.0 Fine Arts/Humanities Elective	3.0 Non-Major Writing-Intensive (WI) Course	3.0	
Entrepreneurship Elective	3.0 Free Electives	6.0 Required Minor Course	3.0	
Required Minor Course	3.0 Required Minor Course	3.0 Social/Behavioral Science Course	3.0	
Science Course	3.0	Technology Course	3.0	
	18	19	18	12

Third Year

Fall	Credits Winter	Credits Spring	Credits
BLAW 346	4.0 Entrepreneurship Elective	3.0 Entrepreneurship Electives	6.0
ENTP 410	3.0 Ethics Course	3.0 Free Electives	3.0
Entrepreneurship Elective	3.0 Fine Arts/Humanities Elective	3.0 Required Minor Courses	6.0
Free Elective	3.0 Free Electives	6.0	

Required Minor Course	3.0 Required Minor Course	3.0	
	16	18	15

Total Credits 181

Option 2: Summer Vacation First Year

First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ENGL 101 or 111	3.0 CIVC 101	1.0 ACCT 120	4.0 VACATION	
ENTP 100	1.0 ENGL 102 or 112	3.0 ENGL 103 or 113	3.0	
ENTP 105	3.0 ENTP 205	3.0 ENTP 225	3.0	
ENTP 250	3.0 ENTP 215	3.0 Language Course	4.0	
UNIV C101	1.0 Language Course	4.0 Social/Behavioral Science Course	3.0	
Mathematics Course	3.0 Mathematics Course	3.0		
	14	17	17	0

Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ECON 201	4.0 COM 230	3.0 MKTG 201	4.0 ENTP 395	12.0
ENTP 440	3.0 PHIL 105	3.0 Entrepreneurship Elective	3.0	
Language Course	4.0 Entrepreneurship Elective	3.0 Fine Arts/Humanities Elective	3.0	
Required Minor course	3.0 Free Elective	3.0 Free Elective(s)	3.0-6.0	
Science Course	3.0 Required Minor course Science Course	3.0 Required Minor Elective	3.0	
	17	18	16-19	12

Third Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ENTP 410	3.0 BLAW 346	4.0 Entrepreneurship Elective	3.0 Entrepreneurship Elective	3.0
Entrepreneurship Elective	3.0 Entrepreneurship Electives	6.0 Ethics Course	3.0 Free Electives	6.0
Ethics Course	3.0 Free Elective	3.0 Fine Arts /Humanities	3.0 Required Minor Courses	6.0
Non-Major Writing- Intensive Course (WI)	3.0 Social/Behavioral Science Course	3.0 Free Electives	6.0	
Required Minor Course	3.0 Required Minor Course	3.0 Required Minor Course	3.0	
Technology Course	3.0			
	18	19	18	15

Total Credits 181-184

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 Ogutveren-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.

Damian Salas, MBA (Drexel University) Associate Dean for Academic Partnerships. Assistant Teaching Professor. Strategic Entrepreneurship; Entrepreneurial Growth; Human Capital Management

Zahed Subhan, PhD, JD/LLB (Law) (University of Leeds (UK); London University). Teaching Professor. Marketing, Entrepreneurship, Innovation Management

Sustainability and Innovation

Major: Sustainability and Innovation

Degree Awarded: Bachelor of Science (BS)

Calendar Type: Quarter

Minimum required credits: 182

Co-op Option: Three Co-op (Five years); One Co-op (Four years); No Co-op (Four years)

Classification of Instructional Programs (CIP) code: 52.0701

Standard Occupational Classification (SOC) code: 11-1011, 11-1021

About the Program

The BS in Sustainability and Innovation offers a unique multidisciplinary perspective on current-day social and environmental challenges and provides students with the tools needed to create responsive, market-based solutions. This degree embeds the Charles D. Close School's unique approach to teaching entrepreneurship as a habit of mind within the framework of environmental stewardship, social equity, and economic sustainability. Graduates of this degree will be prepared to innovate in a variety of contexts including established companies, new or growing ventures, social enterprises, educational institutions, and other nonprofits.

Sustainability is the simultaneous pursuit of human flourishing, environmental quality, and economic well-being for current and future generations. In accordance with United Nations Sustainable Development Goals, this degree challenges students to recognize the complex nature of solving problems at the intersection of civil society, the marketplace, and the natural environment. This degree includes courses in the arts, sciences, and business, to provide a deeper understanding of the fields in which you will innovate, and requires you to pursue a minor outside of the Charles D. Close School to further fuel your passion and knowledge.

What will you learn?

- **Critical Thinking:** Examine the interconnected relationships between social, environmental, economic, and natural environments informed by the United Nations 2030 Agenda for Sustainable Development.
- **Ethical Decision Making:** Apply ethical frameworks to the ideation, process, and practice of entrepreneurship.
- **Resilience:** Build the personal strengths required to respond to uncertainty and failure in an innovative environment.
- **Effective Communication Skills:** Communicate effectively and dynamically in a range of situations associated with an innovative environment.

Who should enroll?

According to the International Labor Organization (ILO) (https://www.ilo.org/wcmsp5/groups/public/---dgreports/---dcomm/---publ/documents/publication/wcms_628708.pdf), new jobs in sustainability and innovation are poised to grow by 24 million globally by 2030. The marketplace is undergoing a radical and permanent shift towards sustainability in all aspects of operations. With a degree in Sustainability and Innovation, you will be ready to:

- Apply your foundational understanding of major social and environmental problems to become an impact entrepreneur and agent of change.
- Start your own business or enter existing and emerging job markets in industry sectors poised for impact innovation, including, but not limited to:
 - Transportation
 - Construction and Engineering
 - Energy and Environmental Stewardship
 - Education
 - Healthcare
 - Fashion
 - Agriculture and Forestry
 - Governmental and Regulatory Administration
 - Arts and Entertainment
 - Job Training and Development
- This program is designed for individuals who are passionate about making the world a better place. Students who are interested in using entrepreneurship and innovation to create impactful solutions to society's most pressing problems are encouraged to apply.

Questions about this program?

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

Rita Berson

Assistant Director of Academic Advising and Student Success
Charles D. Close School of Entrepreneurship
3230 Market Street
Philadelphia, PA 19104
Email: rk25@drexel.edu (rk25@drexel.)

Admission Requirements

Please visit this link for admission requirements: <https://drexel.edu/undergrad/apply/freshmen-instructions/>

Degree Requirements

General Education Requirements

CIVC 101	Introduction to Civic Engagement	1.0
COOP 101	Career Management and Professional Development *	1.0
UNIV C101	The Drexel Experience	1.0
ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research ()	3.0
or ENGL 111	English Composition I	
ENGL 102	Composition and Rhetoric II: Advanced Research and Evidence-Based Writing	3.0
or ENGL 112	English Composition II	
ENGL 103	Composition and Rhetoric III: Themes and Genres	3.0
or ENGL 113	English Composition III	
ACCT 120	Accounting Essentials for New Ventures	4.0
COM 230	Techniques of Speaking	3.0
PHIL 105	Critical Reasoning	3.0
ECON 201	Principles of Microeconomics	4.0
ECON 202	Principles of Macroeconomics	4.0
Social and Behavioral Science		
PSY 101	General Psychology I	3.0
SOC 101	Introduction to Sociology	3.0
Select ONE of the following sequences		8.0
MATH 101 & MATH 102	Introduction to Analysis I and Introduction to Analysis II	
MATH 121 & MATH 122	Calculus I and Calculus II	
Select ONE of the following sequences		8.0
BIO 107 & BIO 108 & BIO 109 & BIO 110	Cells, Genetics & Physiology and Cells, Genetics and Physiology Laboratory and Biological Diversity, Ecology & Evolution and Biological Diversity, Ecology and Evolution Laboratory	
GEO 101 & GEO 102	Physical Geology and History of the Earth	
Choose one of the following Writing Intensive Courses		3.0
COM 270 [WI]	Business Communication	
COM 310 [WI]	Technical Communication	
COM 317 [WI]	Environmental Communication	
COM 320 [WI]	Science Writing	
COM 375 [WI]	Grant Writing	
Two Humanities and Fine Arts		6.0
Choose from Africana Studies (AFAS), English (ENGL), Humanities-General (HUM), Global Studies (GST), Jewish Studies (JWST), Philosophy (PHIL), Women's & Gender Studies (WGST); Any course from the Westphal College of Media Arts and Design		
Two Technology Courses		6.0
Choose from Computer Science (CS), Information Science & Systems (INFO), Management Information Systems (MIS), Software Engineering (SE)		
Select TWO of the following		6.0
PHIL 251	Ethics	
PHIL 301	Business Ethics	
PHIL 305	Ethics and the Media	
PHIL 311	Ethics and Information Technology	
PHIL 315	Engineering Ethics	

PHIL 321	Biomedical Ethics	
PHIL 335	Global Ethical Issues	
PHIL 340	Environmental Ethics	
Core Requirements		
ENTP 100	Innovation Ecosystem	1.0
ENTP 105	Entrepreneurial Thinking	3.0
ENTP 205	Ready, Set, Fail	3.0
ENTP 210 [WI]	Leading Start-Ups	3.0
ENTP 215	Building Entrepreneurial Teams	3.0
ENTP 225 [WI]	Mindfulness & Wellbeing	3.0
ENTP 250	Ideation	3.0
ENTP 260	Curiosity, Ecology, Empathy & Ethic	3.0
ENTP 270	Social Entrepreneurship	3.0
ENTP 275	Diversity Entrepreneurship	3.0
ENTP 290	An Entrepreneur's Introduction to Land: Its Essence, Ethics, and Opportunity	3.0
ENTP 375	3BL - Triple Bottom Line	3.0
ENTP 440	Launch It!: Early Stage	3.0
or ENTP 445	GreenStart: Applying Entrepreneurship to Cultivate Sustainable Solutions	
Innovation Electives (Choose 5) **		15.0-18.0
CRTV 301	Foundations in Creativity	
CRTV 302	Tools and Techniques in Creativity	
CRTV 303	Creativity in the Workplace	
ENTP 285	Organizational Development and Change for Corporate Entrepreneurs	
ENTP 325	Early Stage Venture Funding	
ENTP 329	Entrepreneurship & New Technologies	
ENTP 340	Managing Entrepreneurial Growth	
ENTP 350	Dynamics of the Family Firm	
ENTP 360	Franchising	
ENTP 370	Global Entrepreneurship	
ENTP 385	Innovation in Established Companies	
ENTP 390	Energy Entrepreneurship	
ENTP 450	Launch It!	
MKTG 201	Introduction to Marketing Management	
MKTG 368	Corporate Responsibility Management	
SCTS 202	Innovation and Social Justice	
Sustainability Electives (Choose 5) ***		15.0-20.0
DSMR 210	Presentation Techniques Design and Merchandising	
DSMR 475	Design and Merchandising in the Circular Economy	
ENSS 120	Introduction to Environmental Studies	
ENSS 244	Sociology of the Environment	
ENVS 275	Global Climate Change	
ENSS 283	Introduction to Environmental Policy	
ENSS 285	Introduction to Urban Planning	
ENSS 346	Environmental Justice	
ENVS 260	Environmental Science and Society	
ENVS 289	Global Warming, Biodiversity and Your Future	
PBHL 101	Public Health 101	
PSCI 305	Social Development: A Global Approach	
PSCI 336	Political Economy of Climate Change	
PSCI 338	Cities and Climate Change	
SOC 115	Social Problems	
SOC 349	Sociology of Disasters	
Required Academic Minor		24.0
Free Electives		18.0
Total Credits		182.0-190.0

* Students not participating in co-op will take one additional credit of Free Elective instead of COOP 101.

** ENTP SPECIAL TOPICS courses (ENTP T180, ENTP T280, ENTP T380, ENTP T480) may be substituted at the Close School discretion

*** Other courses may be substituted with departmental and advisor approval.

† May not be a Close School minor.

Writing-Intensive Course Requirements

In order to graduate, all students must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/writing-intensive-courses/>) at the University Writing Program (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/>). (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/>) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Sample Plan of Study

5-Year Coop Spring/Summer Cycle

First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ENGL 101 or 111	3.0 CIVC 101	1.0 ACCT 120	4.0 VACATION	
ENTP 100	1.0 ENGL 102 or 112	3.0 COOP 101*	1.0	
ENTP 105	3.0 ENTP 205	3.0 ENGL 103 or 113	3.0	
ENTP 250	3.0 ENTP 215	3.0 ENTP 290	3.0	
MATH 101 or 121	4.0 ENTP 270	3.0 Innovation Elective	3.0-4.0	
UNIV 101C	1.0 MATH 102 or 122	4.0 Social/Behavioral Science Course	3.0	
	15	17	17-18	0

Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ECON 201	4.0 COM 230	3.0 COOP EXPERIENCE	COOP EXPERIENCE	
ENTP 225	3.0 ECON 202	4.0		
BIO 107 & BIO 108	4.0 ENTP 275	3.0		
OR	PHIL 105	3.0		
GEO 101	BIO 109 & BIO 110	4.0		
Sustainability Elective	3.0-4.0 OR			
Required Minor Course	3.0 GEO 102			
	17-18	17	0	0

Third Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ENTP 210	3.0 ENTP 260	3.0 COOP EXPERIENCE	COOP EXPERIENCE	
Sustainability Elective	3.0-4.0 Sustainability Elective	3.0-4.0		
Fine Arts/Humanities Course	3.0 Ethics Course	3.0		
Required Minor Course	3.0 Required Minor Course	3.0		
Technology Course	3.0 Social/Behavioral Science Course	3.0		
	15-16	15-16	0	0

Fourth Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
Innovation Elective	3.0-4.0 Sustainability Elective	3.0-4.0 COOP EXPERIENCE	COOP EXPERIENCE	
Fine Arts/Humanities Course	3.0 Innovation Elective	3.0-4.0		
Non-major Writing Intensive Course	3.0 Ethics Course	3.0		
Required Minor Course	3.0 Required Minor Course	3.0		
Technology Course	3.0 Free Elective	3.0		
	15-16	15-17	0	0

Fifth Year

Fall	Credits Winter	Credits Spring	Credits
ENTP 440 or 445	3.0 Innovation Elective	3.0-4.0 ENTP 375	3.0
Innovation Elective	3.0-4.0 Required Minor Course	3.0 Required Minor Course	3.0

Sustainability Elective	3.0-4.0 Free Electives	9.0 Free Electives	6.0
Required Minor Course	3.0		
	12-14	15-16	12

Total Credits 182-192

- * Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.
COOP registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

4-Year COOP Spring/Summer Cycle

First Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ENGL 101 or 111	3.0 CIVC 101	1.0 ACCT 120	4.0 VACATION	
ENTP 100	1.0 ENGL 102 or 112	3.0 COOP 101*	1.0	
ENTP 105	3.0 ENTP 205	3.0 ENGL 103 or 113	3.0	
ENTP 250	3.0 ENTP 215	3.0 ENTP 290	3.0	
MATH 101 or 121	4.0 ENTP 270	3.0 Innovation Elective	3.0-4.0	
UNIV C101	1.0 MATH 102 or 122	4.0 Social/Behavioral Science Course	3.0	
	15	17	17-18	0

Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ECON 201	4.0 COM 230	3.0 ENTP 210	3.0 ENTP 260	3.0
ENTP 225	3.0 ECON 202	4.0 Sustainability Elective	3.0-4.0 Sustainability Elective	3.0-4.0
BIO 107 & BIO 108	4.0 ENTP 275	3.0 Fine Arts/Humanities Course	3.0 Ethics Course	3.0
OR	PHIL 105	3.0 Required Minor Course	3.0 Required Minor Course	3.0
GEO 101	BIO 109 & BIO 110	4.0 Technology Course	3.0 Social/ Behavioral Science Course	3.0
Sustainability Elective	3.0-4.0 OR			
Required Minor Course	3.0 GEO 102			
	17-18	17	15-16	15-16

Third Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
Innovation Elective	3.0-4.0 Sustainability Elective	3.0-4.0 COOP EXPERIENCE	COOP EXPERIENCE	
Fine Arts/Humanities Course	3.0 Innovation Elective	3.0-4.0		
Non-major Writing Intensive Course	3.0 Ethics Course	3.0		
Required Minor Course	3.0 Required Minor Course	3.0		
Technology Course	3.0 Free Elective	3.0		
	15-16	15-17	0	0

Fourth Year

Fall	Credits Winter	Credits Spring	Credits
ENTP 440 or 445	3.0 Innovation Elective	3.0-4.0 ENTP 375	3.0
Innovation Elective	3.0-4.0 Required Minor Course	3.0 Required Mnor Course	3.0
Sustainability Elective	3.0-4.0 Free Electives	9.0 Free Electives	6.0
Required Minor Course	3.0		
	12-14	15-16	12

Total Credits 182-192

- * Co-op cycles may vary. Students are assigned a co-op cycle (fall/winter, spring/summer, summer-only) based on their co-op program (4-year, 5-year) and major.
COOP 101 registration is determined by the co-op cycle assigned and may be scheduled in a different term. Select students may be eligible to take COOP 001 in place of COOP 101.

4-YR No COOP**First Year**

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ENGL 101 or 111	3.0 CIVC 101	1.0 ACCT 120	4.0 VACATION	
ENTP 100	1.0 ENGL 102 or 112	3.0 ENGL 103 or 113	3.0	
ENTP 105	3.0 ENTP 205	3.0 ENTP 290	3.0	
ENTP 250	3.0 ENTP 215	3.0 Innovation Elective	3.0-4.0	
MATH 101 or 121	4.0 ENTP 270	3.0 Social/Behavioral Science Course	3.0	
UNIV C101	1.0 MATH 102 or 122	4.0		
	15	17	16-17	0

Second Year

Fall	Credits Winter	Credits Spring	Credits Summer	Credits
ECON 201	4.0 COM 230	3.0 ENTP 210	3.0 VACATION	
ENTP 225	3.0 ECON 202	4.0 Sustainability Elective	3.0-4.0	
BIO 107 & BIO 108	4.0 ENTP 275	3.0 Fine Arts/Humanities Course	3.0	
OR GEO 101	PHIL 105 BIO 109 & BIO 110	3.0 Required Minor Course 4.0 Technology Course	3.0 3.0	
Required Minor Course	3.0 OR			
Sustainability Elective	3.0-4.0 GEO 102			
	17-18	17	15-16	0

Third Year

Fall	Credits Winter	Credits Spring	Credits
Innovation Elective	3.0-4.0 ENTP 260	3.0 Sustainability Elective	3.0-4.0
Fine Arts/Humanities Course	3.0 Sustainability Elective	3.0-4.0 Innovation Elective	3.0-4.0
Non-major Writing Intensive Course	3.0 Ethics Course	3.0 Ethics Course	3.0
Required Minor Course	3.0 Required Minor Course	3.0 Required Minor Course	3.0
Technology Course	3.0 Social/Behavioral Science Course	3.0 Free Elective	4.0
	15-16	15-16	16-18

Fourth Year

Fall	Credits Winter	Credits Spring	Credits
ENTP 440 or 445	3.0 Innovation Elective	3.0-4.0 ENTP 375	3.0
Innovation Elective	3.0-4.0 Required Minor Course	3.0 Required Minor Course	3.0
Sustainability Elective	3.0-4.0 Free Electives	9.0 Free Electives	6.0
Required Minor Course	3.0		
	12-14	15-16	12

Total Credits 182-192

Sustainability and Innovation Faculty

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

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

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

Ozlem Ogutveren-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.*

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Zahed Subhan, PhD, JD/LLB (Law) (*University of Leeds (UK); London University*). Teaching Professor. Marketing, Entrepreneurship, Innovation Management

John Wilson, PhD (*Regent University*). Assistant Teaching Professor. Intrapreneurship, Corporate Entrepreneurship, Self-Leadership, Employee Empowerment, Corporate Social Responsibility, Leadership, Innovation

Kahlil Wyche, MS (*Drexel University*). Adjunct Instructor.

Minor in Corporate Entrepreneurship

About the Minor

The minor in Corporate Entrepreneurship is designed for students who are interested in careers that spark innovation within start-up companies or established organizations. Students who minor in Corporate Entrepreneurship will learn how to become change agents within companies, helping them to remain competitive using innovation as the driving force behind product or service development.

Admission Requirements

Students of any major with more than 40.0 credits may declare a minor in Corporate Entrepreneurship.

Program Requirements

ENTP 105	Entrepreneurial Thinking	3.0
ENTP 205	Ready, Set, Fail	3.0
ENTP 250	Ideation	3.0
ENTP 285	Organizational Development and Change for Corporate Entrepreneurs	3.0
ENTP 329	Entrepreneurship & New Technologies	3.0
ENTP 340	Managing Entrepreneurial Growth	3.0
ENTP 385	Innovation in Established Companies	3.0
ENTP 440	Launch It!: Early Stage	3.0
Total Credits		24.0

Additional Information

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

Minor in Entrepreneurship and Innovation

About the Minor

The minor in Entrepreneurship and Innovation is designed for students who are interested in starting their own ventures, working for start-up companies, or preparing for self-employment.

Program Requirements

Required Courses

ENTP 105	Entrepreneurial Thinking	3.0
ENTP 205	Ready, Set, Fail	3.0
ENTP 210 [WI]	Leading Start-Ups	3.0
ENTP 215	Building Entrepreneurial Teams	3.0
ENTP 250	Ideation	3.0
ENTP 325	Early Stage Venture Funding	3.0
ENTP 440	Launch It!: Early Stage	3.0
MKTG 201	Introduction to Marketing Management	4.0
Total Credits		25.0

Writing-Intensive Course Requirements

In order to graduate, all students must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/writing-intensive-courses/>) at the University Writing Program (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/>). (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/>) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Additional Information

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

Minor in Social Entrepreneurship

About the Minor

The Social Entrepreneurship minor is designed for students interested in learning how to create and sustain social value within companies or through the pursuit of any social enterprise. Students will learn to develop, fund, and implement innovative solutions to social, cultural, or environmental issues.

Program Requirements

ENTP 105	Entrepreneurial Thinking	3.0
ENTP 205	Ready, Set, Fail	3.0
ENTP 250	Ideation	3.0
ENTP 270	Social Entrepreneurship	3.0
ENTP 275	Diversity Entrepreneurship	3.0
ENTP 290	An Entrepreneur's Introduction to Land: Its Essence, Ethics, and Opportunity	3.0
or ENTP 390	Energy Entrepreneurship	3.0
ENTP 375	3BL - Triple Bottom Line	3.0
ENTP 440	Launch It!: Early Stage	3.0
Total Credits		24.0

Additional Information

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

Certificate in Entrepreneurship

About the Program

Only available to currently enrolled Drexel students.

The certificate in Entrepreneurship is for students who would like to expand the scope of their undergraduate Drexel degree by also developing an entrepreneurial mindset and skillset. This certificate will help you learn to evaluate and pursue opportunities and, most importantly, realize your passions by either starting a company, being innovative in an organization, or navigating your career. By building your entrepreneurial skills and helping you assemble the tools that you need to succeed, the certificate in Entrepreneurship equips you to achieve your life and career aspirations in an ever-changing employment landscape.

Open to Drexel students from all schools and colleges in all majors (with the exception of Close School majors) who have completed 15.0 credits.

Program Requirements

Required courses

ENTP 105	Entrepreneurial Thinking	3.0
ENTP 205	Ready, Set, Fail	3.0
ENTP 440	Launch It!: Early Stage	3.0
Choose two courses from the following:		6.0
ENTP 215	Building Entrepreneurial Teams	
ENTP 250	Ideation	
ENTP 270	Social Entrepreneurship	
ENTP 285	Organizational Development and Change for Corporate Entrepreneurs	

Total Credits

15.0

* Taken as a final course in certificate program after completion of all other course requirements.

Additional Information

For more information about the certificate in Entrepreneurship, please contact Rita Berson at rk25@drexel.edu.

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