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## Goodwin College School of Technology and Professional Studies

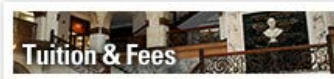
### About the School

The mission of the [School of Technology and Professional Studies](#) is to provide contemporary students with the academic foundation and practical education that meets their career aspirations and facilitates their professional and personal advancement.

While still serving a large adult, part-time student population, the School has grown into a distinct entity that creates and delivers programs that are professional and applied in nature for both full-time traditional and nontraditional students. Today, the School offers full-time and part-time programs, credit and non-credit courses, classes during the day, evening, Saturdays, and online—as well as programs designed to suit the needs of the corporate sector.

The School also provides a range of continuing adult and professional education programs, certificates of proficiency, licensing and certification test preparation, and customer contracted training. The School abides by the continuing education unit (CEU) criteria for quality education.

All Goodwin programs are unique, aligning with market and industry needs, and blending theory with practice through laboratory experiments, field trips, and solid alliances with key businesses and industries. Instruction at Goodwin is supported by a team of educators with noteworthy educational credentials and expertise, and varied industrial background.



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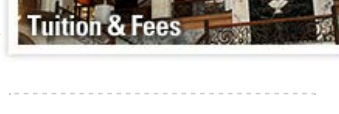
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## The Goodwin College of Professional Studies

### Facilities

The College of Professional Studies is housed in One Drexel Plaza, 3001 Market Street, across from the 30th Street Train Station in Philadelphia. This facility, designed to provide convenient and effective access for students, includes one-stop student services including admissions, registration, financial aid, and academic advising. The college provides its students with access to seven state-of-the-art computer labs, equipped with advanced and updated software, desktop publishing and scanner capabilities. Additional resources include a state-of-the-art teleconferencing/smart room, and PLC, electronics, and machine tools educational laboratories to support the applied engineering technology program.

The major facility of the Hospitality Management, Culinary Arts and Food Science programs is located on the sixth floor of the Academic Building. It is a 6,500 square foot space that includes three state-of-the-art commercial kitchens and the [Academic Bistro](#), the student-run restaurant, bar and lounge. The facility also includes a conference room and the Les Dames d'Escoffier Library, which currently holds over 1,200 publications.



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## Construction Management

### Program Goals

The program is designed to increase the students' breadth and depth of knowledge in the principles and practices of construction management. The program serves as an excellent platform to develop senior management for the region's construction industry.

Graduates of the Master of Science in Construction Management will:

- exhibit strong technical and managerial skills
- apply scientific methodologies to problem solving
- think critically
- exercise creativity and inject innovation into the process
- operate at the highest level of ethical practice
- employ principles of transformational leadership

### Concentrations

Three concentrations are available:

#### Construction Management Project Management

This concentration provides the knowledge and skills required to successfully manage complex construction projects. Topics include the hard skills of project management, such as estimating and budgeting, time management, and planning. Other topics include managerial and legal aspects of construction contract administration, international construction practices, strategic planning, quality management, and productivity analysis.

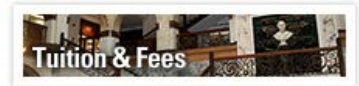
#### Real Estate

In this concentration students explore the knowledge and skills required to create, maintain, and build environments for living, working and entertainment purposes. Relevant issues include project finance, real estate as investments, design and construction, operations, development law, environmental remediation, public policy, market analysis, and architecture.

#### Sustainability and Green Construction

Sustainable development means integrating the decision-making process across the project team, so that every decision is made with an eye to the greatest long-term benefits. Currently, in the Leadership in Energy and Environmental Design (LEED) green building rating system, the construction process represents a significant portion of the effort required to achieve high performance building programs. This concentration is intended to explore these concepts in detail.

For additional information, view the Goodwin College of Professional Studies' [Construction Management](#) page.



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## Master of Science in Construction Management

### Admissions Requirements

Admission to the program requires:

- A bachelor's degree in construction management or engineering, or a baccalaureate business or non-technical degree.
- A completed application
- Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended. Potential students must supply transcripts regardless of the number of credits earned or the type of school attended. If a potential student does not list all post-secondary institutions on his or her application, and these are listed on transcripts received from other institutions, processing of the application will be delayed until the remaining transcripts have been submitted.
- GPA of 3.0 or higher
- Two letters of recommendation (professional or academic)
- Up-to-date resume
- 500 word essay on why the applicant wishes to pursue graduate studies in this program
- International Students must submit a TOEFL score indicating a minimum of 600 (paper exam) or 250 (CBT exam). For more information regarding international applicant requirements, view the [International Students Admissions Information](#) page.

Visit the [Graduate Admissions](#) website for more information about requirements and deadlines, as well as instructions for applying online.



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## Master of Science in Construction Management

45.0 credits

The Master of Science in Construction Management degree requires completion of 45 credit hours (quarter) of study. The curriculum includes a core of 5 required courses (15 credits), a concentration, and 6 credits of culminating experience. The culminating experience includes a capstone project in construction management.

### Curriculum

#### Core Foundation Courses 15.0 Credits

CMGT 501	Leadership in Construction	3.0
CMGT 505	Construction Accounting and Financial Management	3.0
CMGT 510	Construction Control Techniques	3.0
CMGT 512	Cost Estimating and Bidding Strategies	3.0
CMGT 515	Risk Management in Construction	3.0

#### Students pursue a concentration in one of the following areas:

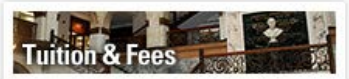
#### Construction Management Project Management Concentration 24.0 Credits

CMGT 525	Applied Construction Project Management	3.0
CMGT 528	Construction Contract Administration	3.0
CMGT 530	Equipment Applications and Economics	3.0
CMGT 532	International Construction Practices	3.0
CMGT 538	Strategic Planning in Construction	3.0
CMGT 540	Schedule Impact Analysis	3.0
CMGT 548	Quality Management & Construction Performance	3.0
CMGT 550	Productivity Analysis and Improvement	3.0

#### Real Estate Concentration 24.0 Credits

Students select any eight (8) of the following courses:

CMGT 535	Community Impact Analysis	3.0
REAL 568	Real Estate Development	3.0
REAL 571	Advanced Real Estate Investment and Analysis	3.0
REAL 572	Advanced Market Research and Analysis	3.0
REAL 573	Sales and Marketing of Real Estate	3.0



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REAL 574	Real Estate Economics in Urban Markets	3.0
REAL 575	Real Estate Finance	3.0
REAL 576	Real Estate Valuation and Analysis	3.0
REAL 577	Legal Issues in Real Estate Development	3.0

**Sustainability and Green Construction Concentration** **15.0 Credits**

CMGT 535	Community Impact Analysis	3.0
CMGT 545	Sustainable Principles & Practices	3.0
CMGT 546	Sustainable Technologies	3.0
CMGT 547	LEED Concepts	3.0
CMGT 558	Community Sustainability	3.0

**Culminating experience** **6.0 Credits**

CMGT 695	Capstone Project in Construction Management	6.0
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## Master of Science in Creativity and Innovation

45.0 quarter credits

In a world of increasing complexity, change, and competition, generating new ideas and bringing them to the table is now essential for corporate management. Creativity is multidisciplinary – it is in all professional fields from chemistry to engineering, from education to computer science, and from sociology to business. Successful organizations, in all fields, view creativity as vital and are the ones that instill creativity throughout the organization. The application of creativity skills distinguishes managers who maintain the status quo from leaders who inspire a new direction or vision. By internalizing the spirit of creativity and the principles of creative problem solving, individuals can be transformed into change leaders.

### Objectives

Upon successful completion of the program, students will:

- Recognize and delineate problematic situations within various settings (e.g., corporate, educational, military, etc.).
- Generate a sufficient number of plausible and creative solutions to identified problems.
- Select and implement the best possible solution to a given problematic situation, following methodical analysis of a menu of creative solutions
- Provide a translation of the latest research in creativity and innovation to academic and corporate settings.
- Participate in research where emerging creativity scholars come together on site or virtually for sharing of ideas, for collaborating, and for seeking and receiving help in literature review, methodology, and grant writing.
- Enable their worksite to develop in-house expertise to foster creative environments and identify creative problem solvers within their workforce.

For more information, visit Drexel Online's [MS in Creativity and Innovation](#) website.



### Curriculum

#### Required Courses 27.0 Credits

<a href="#">CRTV 501</a>	Foundations in Creativity	3.0
<a href="#">CRTV 502</a>	Tools & Techniques in Creativity	3.0
<a href="#">CRTV 503</a>	Creativity in the Workplace	3.0
<a href="#">CRTV 610</a>	Creativity & Change Leadership	3.0
<a href="#">CRTV 620</a>	Research & Assessment of Creativity	3.0
<a href="#">CRTV 630</a>	Global Perspectives on Creativity	3.0
<a href="#">CRTV 640</a>	Historical Concepts of Creativity: Pre-1500	3.0
<a href="#">CRTV 650</a>	Current Trends in Creativity & Innovation	3.0
<a href="#">PSY 614</a>	Problem Solving & Creativity	3.0

#### Professional Electives 12.0 Credits

Electives will be selected in consultation with the Program Director and/or Advisor.

#### Capstone Courses 6.0 Credits

<a href="#">CRTV 695</a>	Applied Project in CRTV I	3.0
<a href="#">CRTV 696</a>	Applied Project in CRTV II	3.0

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## MS in Engineering Technology

### About the Program

The primary goal of the Master of Science in Engineering Technology is to develop advanced-level practitioners in resolving technical problems through the application of engineering principles and technology.

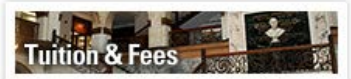
The program can be pursued in either a full- or part-time basis and permits students to select a combination of courses relevant to individual career goals in technology. The program has also been designed to provide the foundation for further advanced study and allows practicing professionals the opportunity to update knowledge and skills based on the latest technological developments in the industrial environment and therefore advance in their chosen careers.

### Program Goals

Graduates of the Master of Science in Engineering Technology will be expected to:

- Apply scientific and technological concepts to solving technological problems.
- Apply concepts and skills developed in a variety of technical and professional disciplines including computer applications and networking, materials properties and production processes, and quality control to improve production processes and techniques.
- Plan, facilitate, and integrate technology and problem solving techniques in the leadership functions of the industrial enterprise system.
- Engage in applied technical research in order to add to the knowledge of the discipline and to solve problems in an industrial environment.
- Apply theories, concepts, and principles of related disciplines to develop the communication skills required for technical-managers.

For additional information, view the Goodwin College of Professional Studies' [Engineering Technology program](#) web page.



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## MS in Engineering Technology

### Admission requirements

Applicants must have a 3.0 grade point average in their undergraduate or upper division (junior and senior year) coursework.

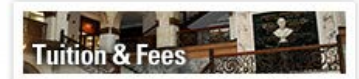
International students who have their undergraduate degree from a country whose language is not English can be admitted with a Test of English as a Foreign Language (TOEFL) test score of 550 or better. For more information regarding international applicant requirements, view the [International Students Admissions Information](#) page.

In addition to the general Drexel graduate admission requirements applicants must provide a preliminary proposal of their intended plan of study, which should include a general set of objectives, an outline of the courses to be taken, and identification of a master's project topic to be pursued.

**Prerequisite courses** , The following prerequisite courses must be completed at the undergraduate level with a minimum grade of C:

- Calculus 1
- Calculus 2
- Physics 1 (algebra-based)
- Physics 2 (algebra-based)
- DC/AC Circuit Analysis
- Digital Electronics
- Industrial Materials
- Statistics

Visit the [Graduate Admissions](#) website for more information about requirements and deadlines, as well as instructions for applying online.



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## Master of Science in Engineering Technology

45.0 credits

### Program Requirements

Candidates for the MS in Engineering Technology must complete a minimum of 45.0 quarter credits. A minimum grade of B is required in all core courses and no more than two C grades in electives.

Of the 45.0 quarter credits required for the degree, 30.0 must be earned at Drexel University, including 24.0 credits of Engineering Technology (ET) courses. A maximum of 15.0 transfer credits may be allowed for graduate courses taken at other institutions, if they are appropriate to the student's plan of study.

#### Curriculum

#### Core Courses 27.0 Credits

ET 605	Modern Materials	3.0
ET 610	Networks for Industrial Environment	3.0
ET 615	Rapid Prototyping	3.0
ET 619	Programmable Devices and Systems	3.0
ET 620	Microsystems and Microfabrication	3.0
ET 725	Sensors and Measurements	3.0
ET 732	Modern Energy Conversion Technologies	3.0
PRST 503	Ethics for Professionals	3.0
PRST 504	Research Methods and Statistics	3.0

#### Electives 9.0 Credits

Students select 3 courses from the followings:

ET 635	Engineering Quality Methods	3.0
ET 675	Reliability Engineering	3.0
ET 730	Lean Manufacturing Principles	3.0
ET 755	Sustainable and Green Manufacturing	3.0
PROJ 501	Introduction to Project Management	3.0
PRST 512	Computing for Professionals	3.0

#### Capstone Course 9.0 Credits



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\*Students repeat ET 695 for credit three times.



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## Master of Science in Food Science

### About the Program

The MS in Food Science program provides a science-based professional education that encompasses classroom theory, practical research, and application. Food science is concerned with foods, their ingredients, and their physicochemical and biochemical interactions at the molecular and cellular levels.

Graduate students in the food science program participate in the research enterprise by completing a research project or designing and executing a thesis under faculty direction. Current research in food science includes:

- Physicochemical changes during deep-fat frying
- Development of a biosensor for antioxidant capacity
- Development of reduced fat and reduced sodium products
- Descriptive sensory analysis of beverages
- Development of lexicons for flavor descriptive analysis

#### Opportunities

The MS in Food Science is designed for students who:

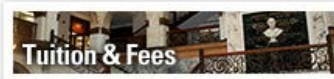
- are already working within the food industry and seeking professional advancement.
- have an undergraduate degree in a general science-related area such as biology or chemistry, and would like to change fields or move into the more specialized field of food science

The MS in Food Science offers students numerous opportunities for hands-on, real-world careers in applied science and technology. Potential employers include food product manufacturers, along with other companies providing services related to institutional feeding or supplying ingredients, processing equipment, and packaging materials. Technical and administrative positions are also available in various government agencies and with independent testing laboratories.

Food scientists are needed in the areas of:

- Food quality assessment and management
- Food processing and engineering
- Food product research and development
- Marketing and distribution
- Technical sales and support

For additional information, view the Goodwin College of Professional Studies' [Master of Science in Food Science](#) web page.



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## Master of Science in Food Science

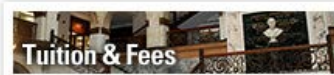
### Admissions Requirements

The MS in Food Science program's approach to graduate study is quantitative; therefore, applicants are expected to demonstrate competency in the coursework or its equivalent listed in the following table. The graduate committee evaluates each applicant's transcripts at the time of application. In some cases, courses listed as prerequisites may be taken as corequisites during the first year of graduate study if deemed appropriate by the graduate admissions committee.

- general chemistry: one year
- organic chemistry: two terms or semesters
- biochemistry: one or two terms or semesters
- general biology: two courses to include genetics
- microbiology: one course
- mathematics: one year to include calculus
- statistics: one course
- physics: two terms or semesters

For more information about the program, contact Dr. Jeehyun Lee, Academic Building 110, ; [jl887@drexel.edu](mailto:jl887@drexel.edu).

Visit the [Admissions](#) site to apply online.



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## Master of Science in Food Science

45.0 post-baccalaureate credits

### Curriculum

Required courses 30.0 Credits

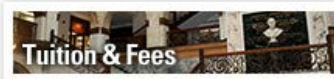
BIO 610	Biochemistry II	3.0
ENVS 506	Biostatistics	3.0
FDSC 506	Food Composition and Behavior	3.0
FDSC 550	Food Microbiology	3.0
FDSC 551	Food Microbiology Laboratory	2.0
FDSC 560	Food Chemistry	3.0
FDSC 556	Food Preservation Process	3.0
FDSC 669	Readings in Food Science	3.0
FDSC 890	Seminar in Food Science	1.0
NFS 530	Macronutrient Metabolism	3.0
NFS 601	Research Methods in Applied Nutrition	3.0
	Electives*	15.0

\*Electives are selected from departmental or related course offerings in consultation with the student's graduate advisor. Possibilities include courses in various aspects of nutrition; special topics in food science such as taste and odor and organoleptic evaluation; microbial physiology; microbial genetics; recombinant DNA techniques; chemical instrumentation; biochemistry; sanitary microbiology; toxicology; and environmental sciences. Students electing the thesis option may include up to six credits of FDSC 997 (Research in Food Science) among their electives.

#### Research

Students are invited to participate in research by designing and completing a research project or thesis. All thesis students consult with a faculty advisor and prepare a research proposal. Students present their proposals to their thesis committee for approval and, at the prerogative of the faculty, complete the research and report on it in seminar presentations. Students may elect to work in ongoing research or in some cases may suggest a new research area of specific interest to them. Individual guidance is necessary before research can commence, and there is periodic review during the course of the work. Students must submit a final written thesis to their thesis committee and defend the thesis at a final oral examination. Students in the thesis option may include up to six credits of FDSC 997, Research in Food Science, among their electives.

Students in the non-thesis option are required to pass a written comprehensive examination. Students electing the non-thesis option may include up to three credits of FDSC 997, Research in Food Science, among their electives.



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## Hospitality Management

### About the Program

Both at the national and international level, travel and hospitality have become primary industries that require increasing numbers of professionals at all skill levels. Additional educational opportunities at the graduate level will be required to fill the needs of the tourism industry. Top professionals with an MS degree have excellent prospects at home and in the global marketplace.

Drexel University has a professional and technological emphasis as well as a track record of supporting the relationship between academics and industry. The Master of Science degree in Hospitality Management is designed to prepare graduates to be key decision makers in the hospitality industry.

This two-year online master's degree will include courses such as program planning and creativity as well as specialized preparation in a concentration of either Tourism or Gaming and Casino Management.

For additional information, visit the College's [Master of Science in Hospitality Management](#) page.



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## Hospitality Management

### Admission requirements

Classes start in the Fall and Spring terms. Applications are submitted throughout the year. Admission requirements include:

- a completed application form
- a Bachelor's degree from an accredited institution
- an undergraduate GPA of 3.0 or higher (graduate degree GPAs will be considered along with the undergraduate GPA)
- official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended.

Applicants must supply transcripts regardless of the number of credits earned or the type of school attended. If an applicant does not list all post-secondary institutions on the application and these are listed on transcripts received from other institutions, processing of the application will be delayed until the remaining transcripts have been submitted.

- two letters of recommendation
- a personal essay
- a resume
- International students must submit a TOEFL score of 550 or higher. For more information regarding international applicant requirements, view the [International Students Admissions Information](#) page.

Visit the [Graduate Admissions](#) website for more information about requirements and deadlines, as well as instructions for applying online. Or, for additional questions, contact the MS in Hospitality Management program advisor: [Ruth Lee](#), .



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## Master of Science in Hospitality Management

< p class="credits"> 45.0 quarter credits

The Master of Science in Hospitality Management requires completion of 45.0 credit hours (quarter) of study. The curriculum includes a core of 11 required courses (33.0 credits), including a research course where students consult with a faculty advisor to identify a suitable problem area in hospitality management and develop and carry out appropriate methodology to address the problem. In addition students take 12.0 credits in a concentration, either Global Tourism or Gaming and Casino Management.

### Curriculum

#### Goodwin College of Professional Studies Core Courses 12.0 Credits

<a href="#">CRTV 501</a>	Foundations in Creativity	3.0
<a href="#">PROJ 501</a>	Introduction to Project Management	3.0
<a href="#">PRST 503</a>	Ethics for Professionals	3.0
<a href="#">PRST 504</a>	Research Methods and Statistics	3.0

#### Hospitality Management Required Courses 21.0 Credits

<a href="#">HRM 501</a>	Foundations of the Hospitality Industry	3.0
<a href="#">HRM 505</a>	Customer Service for Professionals	3.0
<a href="#">HRM 520</a>	Hospitality Information Systems	3.0
<a href="#">HRM 555</a>	Hospitality Human Resource Management	3.0
<a href="#">HRM 650</a>	Strategic Management and Leadership in Hospitality	3.0
<a href="#">HRM 997</a>	Research Project in Hospitality Management	3.0

### Concentrations

Students select a concentrations in either **Global Tourism** or **Gaming and Casino Management**

#### Global Tourism 12.0 Credits

Students select four (4) of the following courses:

<a href="#">HRM 515</a>	Destination and Resort Management	3.0
<a href="#">HRM 595</a>	Economics and Social Dynamics of Tourism	3.0
<a href="#">HRM 610</a>	The Global Tourism System	3.0



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HRM 612	Tourism and Sustainability	3.0
HRM 614	Tourism Development	3.0
HRM 616	Tourism Marketing and Branding	3.0

**Gaming and Casino Management** **12.0 Credits**

**Students select four (4) of the following courses:**

HRM 515	Destination and Resort Management	3.0
HRM 572	Gaming Information Systems	3.0
HRM 575	Current Issues in Gaming	3.0
HRM 670	Casino Financial Analysis	3.0
HRM 672	Casino Security	3.0
HRM 674	Tribal Gaming Management	3.0
HRM 676	Casino Marketing	3.0



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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

## Professional Studies

### About the Program

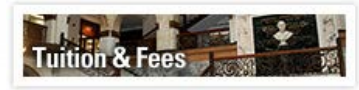
The Master of Science in professional Studies is designed for individuals and practitioners with established career paths who are interested in developing marketable skills to meet evolving workforce demands; seeking professional development; and expanding promotional opportunities.

The degree contains a common core of knowledge and skills relevant for 21st century professionals in nearly every field. The degree also will provide knowledge and skills for immediate application in three important professional fields of study:

- **Creativity and Innovation Concentration**  
Students will form an in depth understanding of creativity, enhanced communication, and creative problem solving, while learning how these may be applied to practical situations that further workplace culture of creativity.
- **Educational Policy Concentration**  
Students will learn the factors involved in educational policy-making and how to apply educational policy-making skills in their professional roles where applicable. The concentration is designed to prepare educators of all types in the decision-making process of educational policy development.
- **E-Learning Leadership Concentration**  
Students will acquire knowledge of online and distance learning leadership theory and practice in emerging information and communication technologies, multimedia pedagogical strategies, and e-learning design and delivery.
- **Homeland Security Management Concentration**  
Students will develop competencies relating to homeland security strategy and policy development, national security issues in terrorism, critical infrastructure protection, intelligence, land and maritime border and port protection, and developing technologies in homeland security.
- **Human Resource Development Concentration**  
Students will develop the skills they need to strategically lead human resource development and align organizational learning with organizational goals. This concentration program addresses specific topics in human resource development, such as coaching and mentoring, implementing and evaluating change, performance competencies, and designing and developing multimedia applications for learning.

Courses will be offered in the fall, winter, spring, and summer, allowing students an opportunity to complete all degree requirements within two years.

For additional information, visit the [Master of Science in Professional Studies](#) web page.



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## Professional Studies

### Admission Requirements

- Completed application form
- Bachelor's degree from a regionally accredited institution
- Undergraduate cumulative GPA of 3.0 or higher (graduate degree GPAs will be considered along with the undergraduate GPA). Applicants with a cumulative GPA below 3.0 may be considered.
- **Official transcripts** from all universities or colleges and other post-secondary educational institutions (including trade schools) attended. Instead of hard copy transcripts, you may supply official electronic transcripts issued by a post-secondary institution directly to Drexel University Online (use our email address, [customerservice@drexel.com](mailto:customerservice@drexel.com)). You must supply transcripts regardless of the number of credits earned or the type of school you attended. If you do not list all post-secondary institutions on your application and these are listed on transcripts received from other institutions, processing of your application will be delayed until you have submitted the remaining transcripts. [Click here to use the Transcript Lookup Tool](#) to assist you in contacting your previous institutions.
- Two letters of recommendation. Drexel University Online now accepts electronic letters of recommendation. Please access the following webpage for instructions regarding their submission: <http://www.drexel.edu/apply/recommend>. If a recommender prefers to submit an original, hard copy letter of recommendation, please remind the recommender that it must be signed and submitted in a sealed envelope signed across the flap by the recommender.
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  - If changing course, why are you moving in a new direction with your educational goals
  - How the program relates to your current line of work
  - How you plan to apply the program to your future goals
- Resume
- International Students must submit a TOEFL score of 550 or higher. For more information regarding international applicant requirements, view the [International Students Admissions Information](#) page. V
- An interview may be requested.

Visit the [MS in Professional Studies Online Application](#) page for more information about requirements and deadlines, as well as instructions for applying online.



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# Drexel University CATALOG 2011-2012

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## Master of Science in Professional Studies

45.0 credits

The Master of Science in Professional Studies requires completion of 45 credit hours of study. The curriculum includes a core of 6 required courses (18.0 credits), 6 courses in an area of concentration (18.0 credits), a culminating capstone integrating the knowledge and skills acquired during the program (6.0 credits) and 3.0 credits of electives.

### Curriculum

#### Core Courses 18.0 Credits

PRST 501	Communication for Professionals	3.0
PRST 503	Ethics for Professionals	3.0
PRST 504	Research Methods and Statistics	3.0
PRST 612	Data Analysis and Interpretation	3.0
PRST 615	Program Evaluation	3.0
PROJ 501	Introduction to Project Management	3.0

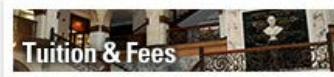
#### Creativity & Innovation Concentration 18.0 Credits

CRTV 501	Foundations in Creativity	3.0
CRTV 502	Tools and Techniques in Creativity	3.0
CRTV 503	Creativity in the Workplace	3.0
CRTV 610	Creativity and Change Leadership	3.0
CRTV 620	Research and Assessment of Creativity	3.0
CRTV 630	Global Perspectives on Creativity	3.0

#### Educational Policy Concentration 15.0 Credits

EDPO 620	Education Policy: Concepts, Issues, and Applications	3.0
EDPO 624	The Shaping of American Education Policy: Global Forces, Public Interests, and Politics	3.0
EDPO 628	American Education Policy and United States Combativeness	3.0
EDPO 632	Ethics in Educational Policy-making	3.0
EDPO 636	Access and Equity Issues in Educational Policies and Policy Making	3.0

#### E-Learning Leadership Concentration 18.0 Credits



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ELL 501	Purpose/Business of E-Learning	3.0
ELL 502	E-Learning Technologies	3.0
ELL 503	Teaching/Learning Issues in E-Learning	3.0
ELL 504	Learning Technology and Disabilities	3.0
ELL 604	Design/ Delivery/Management of E-Learning I	3.0
ELL 605	Design/Delivery/Management of E-Learning II	3.0

**Homeland Security Management Concentration** **18.0 Credits**

HSM 544	Introduction to Homeland Security	3.0
HSM 549	Terrorism and Homeland Security	3.0
HSM 554	Critical Infrastructure Protection	3.0
CST 604	Technology for Homeland Security	3.0
CST 609	National Security Intelligence	3.0
CST 614	Counterintelligence	3.0

**Human Resource Development** **18.0 Credits**

EDUC 811	Designing and Developing Multimedia Applications for Learning	3.0
EHRD 500*	Foundations of Human Resource Development*	3.0
EHRD 601	Leading and Evaluating Change	3.0
EHRD 602	Coaching and Mentoring for Sustainable Learning	3.0
EHRD 603	Performance Competencies	3.0
EHRD 605	Organizational Learning and Strategy	3.0

\*Students with an MS in Human Resource Development are not required to take EHRD 500.

\*Students wishing to complete the [Certificate in Human Resource Development](#) must take an additional course, EHRD 604 Developing Human Resources. .

**Electives** **3.0 Credits**

HSM 644	Public Management in Crisis	3.0
HSM 645	Emergency Incident Risk Management	3.0
PRST 640	Policy Analysis	3.0
PRST 644	Communicating in Virtual Teams	3.0
PRST 690	Special Topics in Professional Studies	3.0

**Capstone Requirements****6.0 Credits**

Students complete one of the following capstone course sequences in their chosen area of concentration:

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**Creativity**

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<a href="#">CRTV 695</a>	Applied Project in Creativity I	3.0
<a href="#">CRTV 696</a>	Applied Project in Creativity II	3.0

---

**E-Learning Leadership**

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<a href="#">ELL 695</a>	Applied Project in ELL I	3.0
<a href="#">ELL 696</a>	Applied Project in ELL II	3.0

---

**Educational Policy**

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<a href="#">PRST 690</a>	Special Topics in Professional Studies: Capstone Project in EDPO I*	3.0
<a href="#">PRST 690</a>	Special Topics in Professional Studies: Capstone Project in EDPO II*	3.0

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**Homeland Security Management**

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<a href="#">HSM 695</a>	Applied Project in HSM I	3.0
<a href="#">HSM 696</a>	Applied Project in HSM II	3.0

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**Human Resource Development**

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<a href="#">PRST 690</a>	Special Topics in Professional Studies: Capstone Project in EHRD I*	3.0
<a href="#">PRST 690</a>	Special Topics in Professional Studies: Capstone Project in EHRD II*	3.0

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\*The special topics courses are placeholders while the capstone courses in these fields are undergoing approval.





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## Project Management

Project Management is a field that began in the 1950s in the defense industry. In the 1980s, the field gained critical mass in a broad range of industries, including, but not limited to building/construction, defense, engineering, film and video, financial services, government contracting, and IT/software development. Most environments today are "projectized." In other words, there is a project approach to getting things done. Today's companies use project management (tied to their core competencies) to gain competitive advantage.

The Master of Science in Project Management will lead to the [Project Management Institute's](#) (PMI) internationally recognized Certified Project Management Professional (PMP) designation, a credential that captures the attention of employment recruiters.

For additional information, visit the [Master of Science in Project Management](#) page.



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## Project Management

### Requirements

#### Recommended Prerequisites

The following undergraduate courses or their equivalent are recommended prior to enrolling in the MS in Project Management program:

<a href="#">ACCT 115</a>	Financial Accounting Foundations	4.0
<a href="#">STAT 201</a>	Statistics I	4.0
<a href="#">FIN 301</a>	Introduction to Finance	4.0
<a href="#">ORGB 300 WI</a>	Organizational Behavior	4.0

#### Admission Requirements

- Completed Application Form
- Bachelor's degree from a regionally accredited institution
- Undergraduate GPA of 3.0 or higher (graduate degree GPAs will be considered along with the undergraduate GPA). Applicants with a cumulative GPA below 3.0 may be considered.
- **Official transcripts** from all universities or colleges and other post-secondary educational institutions (including trade schools) attended. Instead of hard copy transcripts, you may supply official electronic transcripts issued by a post-secondary institution directly to Drexel University Online (use our email address, [customerservice@drexel.com](mailto:customerservice@drexel.com)). You must supply transcripts regardless of the number of credits earned or the type of school you attended. If you do not list all post-secondary institutions on your application and these are listed on transcripts received from other institutions, processing of your application will be delayed until you have submitted the remaining transcripts. Click here to use our Transcript Lookup Tool to assist you in contacting your previous institutions.
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- Personal Essay, between 500-750 words, please describing your interest in the program. Specifically, please discuss the following:
  - How the program relates to your previous educational activities
  - If changing course, why are you moving in a new direction with your educational goals
  - How the program relates to your current line of work
  - How you plan to apply the program to your future goals
- Resume
- [International Students](#) must submit a TOEFL score of 550 or higher. For more information regarding international applicant requirements, view the [International Students Admissions Information](#) page.
- An interview may be requested.

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# Drexel University CATALOG 2011-2012

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## Master of Science in Project Management

45.0 credits

The Master of Science in Project Management requires completion of 45 credit hours (quarter) of study. The curriculum includes a core of 9 required courses (27 credits), a culminating capstone project experience integrating the knowledge and skills acquired during the program (PROJ 695, 3.0 credits) and 15.0 credits of electives.

### Recommended Prerequisites

The following undergraduate courses or their equivalent are recommended:

ACCT 115	Financial Accounting Foundations	4.0
FIN 301	Introduction to Finance	4.0
ORGB 300 WI	Organizational Behavior	4.0
STAT 201	Statistics I	4.0

### Electives

Students may use electives to increase project management, creativity, communication, or leadership skills or to develop areas of specialization. Any appropriate graduate course offered in the University can serve as an elective if the student has sufficient background to take the course. In addition, the program will offer its own elective courses including special topics (PROJ 690). Qualified students may also pursue independent study (PROJ 699) for elective credit in special cases.

### Curriculum

Core Courses		30.0 Credits
PROJ 501	Introduction to Project Management	3.0
PROJ 502	Project Planning and Scheduling	3.0
PROJ 510	Project Quality Management	3.0
PROJ 515	Project Estimation and Cost Management	3.0
PROJ 520	Project Risk Assessment and Management	3.0
PROJ 525	E-Tools for Project Management	3.0
PROJ 530	Managing Multiple Projects	3.0
PROJ 535	International Project Management	3.0
PROJ 540	Procurement Management	3.0
PROJ 603	Project Management Leadership	3.0

Electives 12.0 Credits

Capstone project 3.0 Credits



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## Property Management

### About the Program

The Master of Science in Property Management provides graduate study for experienced managers with undergraduate degrees in areas outside of property management or real estate. Property managers operate in a very complex environment and their roles have evolved from handling day-to-day challenges to being actively involved in strategic leadership. Currently, property managers are challenged to balance the needs of owners, tenants, contractors, and government entities. They are expected to be creative participants in setting strategic policies involving development, risk, finance, marketing, human resources, and technology. Property management is a very high-level profession and successful property managers are responsible for thousands of tenants, thousands of units, millions of rent dollars, hundreds of employees, and multi-million dollar investments.

Students complete core foundation courses and three elective courses where they have the choice of selecting a variety of courses or creating an area of specialism based on their professional interests. The elective courses feature special strategies employed to manage and market a variety of industry segments. All students participate in a culminating experience involving two capstone courses, one featuring current issues and the other involving the completion of a major research project and presentation to a board of industry leaders.

Courses will be offered in the fall, winter, spring, and summer, allowing students an opportunity to complete all degree requirements within two years. The program is currently offered online.

For additional information, visit the [Master of Science in Property Management](#) page.



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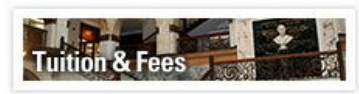
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## Property Management

### Admission Requirements

- Bachelor's degree from a regionally accredited institution
- Undergraduate GPA of 3.0 or higher (graduate degree GPAs will be considered along with the undergraduate GPA). Applicants with a cumulative GPA below 3.0 may be considered.
- Completed application
- Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended. Instead of hard copy transcripts, you may supply official electronic transcripts issued by a post-secondary institution directly to Drexel University Online (use our email address, [customerservice@drexel.com](mailto:customerservice@drexel.com)). You must supply transcripts regardless of the number of credits earned or the type of school you attended. If you do not list all post-secondary institutions on your application and these are listed on transcripts received from other institutions, processing of your application will be delayed until you have submitted the remaining transcripts. Click here to use our [Transcript Lookup Tool](#) (`javascript:opentranscriptwindow();`) to assist you in contacting your previous institutions.
- Two letters of recommendation, professional or academic. Drexel University Online now accepts electronic letters of recommendation. Please access the following webpage for instructions regarding their submission: <http://www.drexel.edu/apply/recommend>. If a recommender prefers to submit an original, hard copy letter of recommendation, please remind the recommender that it must be signed and submitted in a sealed envelope signed across the flap by the recommender.
- Up-to-date resume
- Essay, between 500-750 words, describing your interest in the program. Specifically, please discuss the following:
  - How the program relates to your previous educational activities
  - If changing course, why are you moving in a new direction with your educational goals
  - How the program relates to your current line of work
  - How you plan to apply the program to your future goals
- International students must submit a TOEFL score indicating a minimum of 600 (paper exam) or 250 (CBT exam). For more information regarding international applicant requirements, view the [International Students Admissions Information](#) page.
- An interview may be requested.

Visit the [MS in Property Management Online Application](#) page for more information about requirements and deadlines, as well as instructions for applying online.



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## Master of Science in Property Management

45.0 quarter credits

The Master of Science in Property Management requires the completion of a minimum of 45.0 post-baccalaureate credits with 30.0 credits in core foundation courses. The core foundation courses include essential subject areas for all successful property managers: environment, facilities management, property law, financial analysis, risk management, development, and technology.

In addition, the three premier types of property are featured: residential, commercial, and retail. Beyond the core foundation courses, students can select from a list of elective courses. All students participate in a capstone project which is the culminating experience of the degree program. Students discuss current issues facing the profession work together on a team project to complete an analysis project and have the opportunity to interact with internationally known property management leaders.

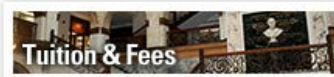
### Curriculum

#### Core Courses 30.0 Credits

CMGT 535	Environmental Impact Analysis and Planning	3.0
PRMT 602	Residential Property Marketing	3.0
PRMT 603	Property Asset Management	3.0
PRMT 610	Facilities Management	3.0
PRMT 625	Property Financial Analysis and Strategy	3.0
PRMT 630	Rental Property Law	3.0
PRMT 640	Property Security, Emergency and Risk Management	3.0
PRMT 645	Property Management Technology Strategy	3.0
PRST 504	Research Methods and Statistics	3.0
REAL 568	Real Estate Development	3.0
REAL 572	Advanced Market Research and Analysis	3.0

#### Electives 6.0 Credits

PRMT 650	Retail Property Marketing and Management	3.0
PRMT 655	Affordable Housing Management	3.0
PRMT 660	Student Housing Marketing and Management	3.0
PRMT 665	Military Housing Marketing and Management	3.0
PRMT 670	Housing for Later Life	3.0
PRMT 675	Commercial Property Management	3.0



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PRMT 680	Special Topics in Property Management	3.0
REAL 574	Real Estate Economics in Urban Markets	3.0

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**Culminating Experience** **6.0 Credits**

PRMT 695	Capstone Project in Property Management I	3.0
PRMT 696	Capstone Project in Property Management II	3.0

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## Sport Management

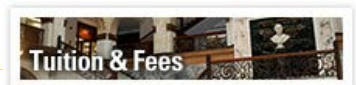
The Master of Science in Sport Management prepares its graduates for positions in sport management at all levels (recreational, youth, inter-scholastic, amateur, collegiate, professional) and within several organizational settings (public, private, non-profit, corporations).

The program content provides an integrated educational experience directed toward developing the ability to apply knowledge and skills to the planning, design, implementation, and evaluation of sport programs and offer solutions to practical problems in the sport management field. Graduates are expected to be leaders in their chosen area of interest by incorporating the various perspectives from the multidisciplinary training and applying them to current issues in sport and society.

### Program Goals

Graduates of the Master of Science in Sport Management will be able to:

- Apply the fundamentals of business to sport management.
- Integrate the principles of management; organizing people and resources to get results in the field of sport.
- Apply the area of law and labor relations to the sports industry and agency.
- Use existing technologies and be prepared for emerging technologies in the sport



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- management field.
- Forecast new developments and adapt to the rapidly changing sports environment.
  - Creatively direct the economic contributions that sports and recreation offer to people, organizations, and the community.
  - Effectively organize, evaluate and improve and use new information in sports.
  - Utilize the knowledge and skills learned to produce an in-depth research project or thesis, which will serve to advance the study of sport management.

For additional information, view the Goodwin College of Professional Studies' [Sport Management program](#) web page.



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## Master of Science in Sport Management

### Admissions Requirements

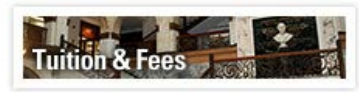
All applicants must have received a four year bachelor's degree from an accredited college or university. Students whose native language is not English and who do not hold a bachelor's degree from a U.S. institution are required to take and submit a score from TOEFL (Test of English as a Foreign Language).

Students applying to the MS degree in Sport Management will be subject to both Drexel's graduate admissions requirements and those of the program, namely:

- Completed Application Form
- A recommended minimum of 3.0 out of 4.0 for the undergraduate degree
- TOEFL (if required) with a minimum score of 600
- All official transcripts verifying an earned baccalaureate degree from an accredited four year institution
- Two letters of recommendation (it is suggested that one be from a professional individual and one be from an academic individual). Letters of recommendation should be requested from individuals who are capable and prepared to make judgments on the applicant's ability to complete graduate studies.
- Professional Resume
- Interview with a member of the Sport Management Faculty (arranged by the Sport Management program)
- A 1000-word essay including a biographical sketch which should include information regarding the applicant's background and experience in the sports industry, a summary of his/her professional career interests and goals and personal strengths
- A recommended minimum of three years working experience since baccalaureate graduation
- Recommended prior experience (voluntary or paid) within the sport industry for those individuals whose undergraduate degree is not in sport management or an associated field.

Students may be admitted into the program on the basis of the above criteria, but if previous studies have not included core courses in sport management, they may be required to take prerequisite courses before being allowed to register for the graduate classes. These courses will be determined by the Director of the Sport Management Program.

Visit the [Graduate Admissions](#) website for more information about requirements and deadlines, as well as instructions for applying online.



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## Master of Science in Sport Management

45.0 post-baccalaureate credits

### Curriculum

#### Core Foundation Courses 33.0 Credits

SMT 601	Sports Industry Management	3.0
SMT 602	Sport Law and Risk Management	3.0
SMT 604	Sport Media and Technology	3.0
SMT 607	Sport Budgeting and Fiscal Practices	3.0
SMT 608	Sports Information and Public Relations	3.0
SMT 609	Sport Ticket Sales and Strategies	3.0
SMT 611	Corporate Sponsorship Sales and Strategies in Sport	3.0
SMT 612	Sport Development and Fundraising Strategies	3.0
SMT 621	Leadership in Sport Management	3.0
SMT 626	Globalization of Sport	3.0
SMT 635	Sports Facilities & Event Management	3.0

#### Sport Management Elective Courses\* 6.0 Credits

Students select any two of the following courses:

SMT 606	Contemporary Issues in Sport	3.0
SMT 615	Olympic Games	3.0
SMT 622	Labor Relations and Collective Bargaining	3.0
SMT 629	Management of Coaches and Teams	3.0
SMT 630	Sports Industry Practicum	3.0
SMT 633	Sport Tourism Strategies	3.0
SMT 640	Consumer Behavior in Sport	3.0
SMT 680	Independent Study	3.0
SMT 690	Special Topics in Sport	3.0

\*Additional options for electives outside the Department may be approved by the advisor.

#### Project/ Research Thesis 6.0 Credits

SMT 698	Research Design and Techniques in Sport	3.0
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## Master of Science in Sport Management

45.0 credits

### Sample Sequence

#### First Year

Fall		Credits
<a href="#">SMT 601</a>	Sports Industry Management	3.0
<a href="#">SMT 602</a>	Sport Law	3.0
	Total credits	6.0

#### Winter

<a href="#">SMT 604</a>	Sport Media and Technology	3.0
<a href="#">SMT 626</a>	Globalization of Sport	3.0
	Total credits	6.0

#### Spring

<a href="#">SMT 607</a>	Sport Budgeting and Fiscal Practices	3.0
<a href="#">SMT 608</a>	Sports Information and Public Relations	3.0
	Total credits	6.0

#### Summer

<a href="#">SMT 621</a>	Leadership in Sport Management	3.0
<a href="#">SMT 635</a>	Sports Facilities & Event Management	3.0
	Total credits	6.0

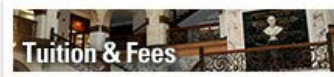
#### Second Year

##### Fall

<a href="#">SMT 609</a>	Sport Ticket Sales and Strategies	3.0
<a href="#">SMT 611</a>	Corporate Sponsorship Sales and Strategies in Sport	3.0
	Total credits	6.0

##### Winter

Sport Development and Fundraising



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SMT 612	Strategies	3.0
	One (1) Sport Management elective	3.0
	Total credits	6.0

**Spring**

SMT 698	Research Design and Techniques in Sport	3.0
	One (1) Sport Management elective	3.0
	Total credits	6.0

**Summer**

SMT 699	Project/Research Thesis	3.0
	Total credits	3.0



# Drexel University CATALOG 2011-2012

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

## Certificate in Construction Management

18.0 quarter credits

The Certificate in Construction Management has been designed for professionals to develop the multidisciplinary skills required of effective construction managers.

Students have the option of completing this 18-credit certificate in Construction Management as a stand-alone professional development credential, or as a step toward the MS in Construction Management.

The admissions process for this program is the same as for the [MS in Construction Management](#).

Depending on the experience and background of individual students, a prerequisite course of CMGT 501 "Leadership in Construction" may be required, or, at the discretion of the faculty, can be waived.

Requirements		18.0 Credits
<a href="#">CMGT 510</a>	Construction Control Techniques	3.0
<a href="#">CMGT 512</a>	Cost Estimating and Bidding Strategies	3.0
<a href="#">CMGT 515</a>	Risk Management in Construction	3.0
<a href="#">CMGT 525</a>	Applied Construction Project Management	3.0
<a href="#">CMGT 528</a>	Construction Contract Administration	3.0
<a href="#">CMGT 538</a>	Strategic Planning in Construction	3.0



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# Drexel University CATALOG 2011-2012

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## Graduate Certificate in Creativity and Innovation

18.0 quarter credits

The Certificate in Creativity and Innovation provides, in a concentrated format, the most contemporary knowledge and skills needed in this important area for students who do not wish to pursue a master's degree but who would value a credential that demonstrates their learning.

Credits from the Graduate Certificate in Creativity and Innovation can be applied toward an [MS in Professional Studies](#).

In a world of increasing complexity, change, and competition, generating new ideas and bringing them to the table is now essential for corporate management. Creativity is multidisciplinary – it is in all professional fields from chemistry to engineering, from education to computer science, and from sociology to business. Successful organizations, in all fields, view creativity as vital and are the ones that instill creativity throughout the organization. The application of creativity skills distinguishes managers who maintain the status quo from leaders who inspire a new direction or vision. By internalizing the spirit of creativity and the principles of creative problem solving, individuals can be transformed into change leaders.

### Objectives

Upon completion of the certificate program, students will have formed an in depth understanding of creativity, enhanced communication, creative problem solving, and how these may be applied to practical situations that further their workplace culture. Participants will use their newly enhanced creative thinking skills to reflect critically on existing workplace practices and express coherent and cogent ideas and suggestions for continuous improvement.

Specific outcomes include the following:

- Students will form a body of knowledge of leading creativity researchers and their theories, specifically Sternberg, Torrance, Amabile, Csikszentmihalyi, Guilford, and Gardner
- Students will develop skills in problem solving and how these may be applied to practical situations
- become aware of ways to enhance one's own and others' creative strengths

For more information, visit Drexel Online's [Graduate Certificate Creativity and Innovation](#) web page.

Requirements		18.0 Credits
<a href="#">CRTV 501</a>	Foundations in Creativity	3.0
<a href="#">CRTV 502</a>	Tools and Techniques in Creativity	3.0
<a href="#">CRTV 503</a>	Creativity in the Workplace	3.0
<a href="#">CRTV 610</a>	Creativity and Change Leadership	3.0
<a href="#">CRTV 620</a>	Research and Assessment of Creativity	3.0
<a href="#">CRTV 630</a>	Global Perspectives on Creativity	3.0



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## Certificate in E-Learning Leadership

18.0 quarter credits

The graduate certificate in E-Learning Leadership is designed to meet the needs of today's working professionals across many fields. As the demand for academic programs and courses to be delivered via e-learning continues to grow, the corresponding need for leadership in this important area increases. Similarly, corporations continue to seek leaders to oversee training and development initiatives via e-learning. This certificate provides, in a concentrated format, the most contemporary knowledge and skills needed in this important area for students who do not wish to pursue a master's degree but who would value a credential that demonstrates their learning.

Admission requires a bachelor's degree from an accredited institution. Credits from the Graduate Certificate in e-Learning Leadership can be applied toward an [MS in Professional Studies](#).

### Objectives

Upon completion of the program, students will have formed an in-depth understanding of online and distance learning theories and will be able to answer the following paramount questions:

- Which emerging technologies hold greatest promise for enriching learning experiences throughout the educational enterprise?
- What pedagogical strategies should designers embody in instructional materials, including those based on multimedia and those reflected in gaming environments?
- How should educators deploy, manage, and evaluate information and communication technologies in classrooms for optimal educational effect?
- What principles of design and practice should educators incorporate into distributed educational courses and programs?

For more information, visit Drexel Online's [Graduate Certificate in E-Learning](#) website.

Requirements		18.0 Credits
<a href="#">ELL 501</a>	Purpose/ Business of E-Learning	3.0
<a href="#">ELL 502</a>	E-Learning Technologies	3.0
<a href="#">ELL 503</a>	Teaching/Learning issues in E-Learning	3.0
<a href="#">ELL 504</a>	Learning Technology and Disabilities	3.0
<a href="#">ELL 604</a>	Design/Delivery/Management of E-Learning I	3.0
<a href="#">ELL 605</a>	Design/Delivery/Management of E-Learning II	3.0



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## Certificate in Homeland Security Management

18.0 quarter credits

The graduate certificate in Homeland Security Management seeks to produce professionals practicing in the defense and security of the homeland in both the public and private sectors. This online program has been designed for employees of federal, state, and municipal government, especially those involved in law enforcement, facilities, emergency medical personnel, fire personnel, and concerned citizens. Prospective graduate students at Drexel who may be interested in courses in this program include those studying construction management, architecture, and engineering (all disciplines).

This certificate provides, in a concentrated format, the most contemporary knowledge and skills needed in this important area for students who do not wish to pursue a master's degree, but who would value a credential that demonstrates their learning. Credits from the Graduate Certificate in Homeland Security Management can be applied toward an [MS in Professional Studies](#).

### Objectives

Students in this certificate program will develop competencies and knowledge relating to:

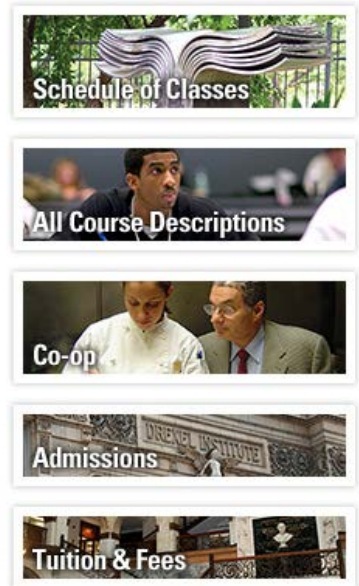
- homeland security strategy and policy development
- national security issues in terrorism
- critical infrastructure protection
- national security intelligence
- land and maritime border and port protection
- developing technologies in homeland security

Specifically, graduates of this program will be able to:

- Design and modify plans and programs at federal, state, and/or local levels to reflect the evolving strategic policy issues associated with a statutory and presidential direction for homeland security.
- Recognize terrorist groups' proclivities in order to forecast the risks, types, and orders of magnitude of terrorist threats most likely to confront the nation-state.
- Develop policies, procedures, and protocols to allow seamless agency integration from prevention to incident response scenarios.
- Recognize the multidisciplinary nature of homeland security functions and be able to assess and integrate various functional areas.

For more information, visit Drexel Online's [Graduate Certificate Homeland Security Management](#) page.

Requirements		18.0 Credits
<a href="#">HSM 544</a>	Introduction to Homeland Security	3.0
<a href="#">HSM 549</a>	Terrorism and Homeland Security	3.0
<a href="#">HSM 554</a>	Critical Infrastructure Protect	3.0
<a href="#">CST 604</a>	Technology and Homeland Security	3.0
<a href="#">CST 609</a>	Intelligence	3.0
<a href="#">CST 614</a>	Counterintelligence	3.0



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## Certificate in Real Estate

18.0 quarter credits

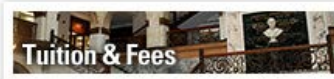
This graduate certificate seeks to produce professionals with the knowledge, skills, and perspective required to be successful in the real estate development process and the industry as a whole. Students explore the knowledge and skills required to create, maintain, and build environments for living, working and entertainment purposes.

Relevant issues include project finance, real estate as investments, design and construction, operations, development law, environmental remediation, public policy, market analysis, and architecture.

Students wishing to complete this certificate in the context of a master's degree should consider the [MS in Construction Management](#) with a concentration in Real Estate.

Requirements		15.0 Credits
<a href="#">REAL 568</a>	Real Estate Development	3.0
<a href="#">REAL 571</a>	Advanced Real Estate Investment and Analysis	3.0
<a href="#">REAL 572</a>	Advanced Market Research and Analysis	3.0
<a href="#">REAL 575</a>	Real Estate Finance	3.0
<a href="#">REAL 577</a>	Legal Issues in Real Estate Development	3.0

Students select one (1) additional credits from the following:		3.0 Credits
<a href="#">REAL 573</a>	Sales and Marketing of Real Estate	3.0
<a href="#">REAL 574</a>	Real Estate Economics in Urban Markets	3.0
<a href="#">REAL 576</a>	Real Estate Valuation and Analysis	3.0



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## Certificate in Sustainability and Green Construction

15.0 quarter credits

The architectural, engineering, and construction community faces the daunting task of providing a built environment which is in harmony with the natural environment—meeting the current needs of society without jeopardizing the ability of future generations to meet their needs. Sustainable development means integrating the decision-making process across the project team, so that every decision is made with an eye to the greatest long-term benefits.

The Certificate in Sustainability and Green Construction is a flexible, part-time post-baccalaureate program, focused on the sustainable aspects of the construction process. Students have the opportunity to complete all requirements within one and a half years.

Currently, in the Leadership in Energy and Environmental Design (LEED) green building rating system, the construction process represents a significant portion of the effort required to achieve high performance building programs. This certificate program is intended to explore these concepts in detail. Credits from this certificate will transfer toward a Masters of Science in Construction Management.

Requirements		15.0 Credits
<a href="#">CMGT 535</a>	Community Impact Analysis	3.0
<a href="#">CMGT 545</a>	Sustainable Principles & Practices	3.0
<a href="#">CMGT 546</a>	Sustainable Technologies	3.0
<a href="#">CMGT 547</a>	LEED Concepts	3.0
<a href="#">CMGT 558</a>	Community Sustainability	3.0



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