



UNIVERSITY OF DELAWARE  
**PROFESSIONAL &  
CONTINUING STUDIES**

FALL 2020 | PROGRAMS AND COURSES

# *EMBRACING CHANGE THROUGH A SECOND CAREER*

After excelling in the **Fundamentals and Advanced Social Media Marketing** certificate programs, **Tony Powell** gained the confidence and knowledge to start a business. Read his story on Page 6.

[PCS.UDEL.EDU](https://pcs.udel.edu)

# What can UD do for you?

## In this issue...

- 1 **ACADEMIC ADVISEMENT AND CAREER COUNSELING (ACCESS CENTER)**
- 3 **PROFESSIONAL DEVELOPMENT PROGRAMS**
  - 3 **Business & IT**
  - 9 **Drone**
  - 11 **Education**
  - 12 **Engineering & Science**
  - 13 **Food & Hospitality**
  - 14 **Healthcare/Health Sciences**
  - 20 **Law**
  - 22 **Pre-College Programs**
  - 24 **Safety**
  - 26 **Test Prep**
- 18 **PROGRAMS-AT-A-GLANCE**  
Pullout grid for quick course schedules and details.
- 28 **UD ONLINE**
- 37 **OSHER LIFELONG LEARNING INSTITUTE (OLLI)**

### Follow #UDPCS on social media!



facebook.com/udpcs



twitter.com/ud\_pcs



linkedin.com/company/udpcs

Art Director/Cover Photo: Evan Krape

Editorial/Marketing Staff: Susan Castelli, Sherrie Fauvelle, Adam S. Kamras, Steven M. Kendus, Tim Nelson, Nora Zelluk

POSTMASTER: Send address changes to Division of Professional and Continuing Studies, University of Delaware, Newark, Delaware 19716.

The University of Delaware is an equal opportunity/affirmative action employer.  
For the University's complete non-discrimination statement, please visit  
<http://udel.edu/aboutus/legalnotices.html> CEP 6525 Rev. 6/20

## NEW PROGRAMS FOR FALL

Introduction to Nonprofit Management .....	5
IT Project Management .....	7
Sales Operations Science .....	7
Self-Paced Programs .....	8
Advanced Legal Research & Writing .....	20

The University of Delaware's Division of Professional and Continuing Studies (UD PCS) provides educational opportunities for anyone seeking to begin or complete their college career, enhance their professional skills or enrich their personal life. UD PCS also provides customized training and educational services to area businesses, organizations and professional associations.

As the adult and nontraditional learners' portal to the University of Delaware, UD PCS impacts thousands of students each year through UD credit courses and degree offerings, professional development courses, certificate programs, specialized conferences, workshops and lifelong learning member cooperatives throughout the state.

Through UD PCS, the University of Delaware extends its vast resources, research, technology and knowledge to the community, the region and the world. UD PCS provides:

- Academic advisement and career counseling
- Credit courses and degree completion
- Customized learning and community partnerships
- Lifelong learning opportunities
- Pre-college programs
- Professional development programs and courses
- Online learning opportunities through UD Online

### Fall course delivery format

While many of our continuing education courses are traditionally offered through an in-classroom learning format, we are also preparing for the possibility of these courses being taught in a live-online format via videoconferencing.

Should a change occur in course delivery format, participants enrolled in fall 2020 courses and programs will be notified as soon as possible.

## The ACCESS Center: Academic Advisement, Credit Registration, and Career Exploration and Assessment

The ACCESS Center provides free academic advisement, career exploration and assessment, and credit registration assistance. Advisors are available to help you achieve your educational and career goals.

ACCESS Center services and resources include:

- Academic advisement for first-time or returning students, including assistance with course/program selection and registration.
- Career exploration and counseling, including administration of career inventories.
- Unofficial transcript evaluation and curriculum review for prospective transfer students.
- Information and assistance with the University's admission and readmission processes.
- Information regarding UD resources and student services.
- Information on University policies and procedures.

**Explore your options! In-person, phone and videoconference (Zoom) appointments are available. Contact the ACCESS Center for an appointment.**

UD Professional & Continuing Studies ACCESS Center  
501 S. College Avenue, Newark, DE 19716

Phone: 302-831-8843 • Fax: 302-831-2789

[access-advise@udel.edu](mailto:access-advise@udel.edu) • [pcs.udel.edu/access](https://pcs.udel.edu/access)

## Power Up Your Career Seminars

### ONLINE—Free and open to the public

Special career- and personal branding-focused seminars provide immediately applicable tips and strategies for your professional goals. The following seminars are offered online, via Zoom, 10-11:30 a.m. on Saturdays.

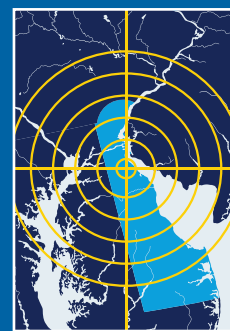
- Why Writing Email is a Skill and Why it Matters (September 12)
- Resiliency in Personal and Professional Setbacks (October 10)
- How to Speak Up in Meetings and When to Hold Back (November 14)
- Building Relationships through Storytelling (December 12)

See [pcs.udel.edu/power-up](https://pcs.udel.edu/power-up) for more information.

## HELPING OUR REGION RECOVER

UD PCS is concerned about everyone in Delaware and the surrounding region who has lost their job or experienced any other COVID-19-related hardship. Looking to do our part to aid in the recovery, we are pleased to present a variety of in-demand programs to empower you to upskill, reskill and refocus. As you view our array of new and returning offerings, note the various **scholarships, discounts** and **payment plans** to assist in the funding of your continuing education.

Please visit [pcs.udel.edu](https://pcs.udel.edu) or call **302-831-7600** to learn more about how we can help you take the next steps forward.



## Credit courses and degree completion

Whether you are a high school student seeking the challenge of college coursework, an adult looking to start or complete a degree, or someone interested in taking individual courses for personal, educational or professional enrichment, you may take UD courses as a Continuing Education, non-admitted student. You do not have to be officially admitted to the University to get started. As long as you meet the course requirements or prerequisites, many University courses are available to Continuing Education students. A wide variety of courses are offered in the evening and online.

**Fall courses are scheduled to begin Tuesday, September 1, 2020. For the latest information regarding the UD academic calendar, see [udel.edu/registrar/cal](https://udel.edu/registrar/cal).**

**Ready to search for a course?** Visit [udel.edu/courses](https://udel.edu/courses).

**Ready to register?** Visit [pcs.udel.edu/registration](https://pcs.udel.edu/registration).

### Over-60 tuition-free programs for matriculated Delaware residents

If you are a Delaware resident age 60 or older, you may pursue a University of Delaware degree without paying tuition. You must apply and be accepted (matriculated) to qualify. Visit [pcs.udel.edu/60-tuition-free-degree](https://pcs.udel.edu/60-tuition-free-degree).

**Need more information? Contact the Professional and Continuing Studies ACCESS Center at [access-advise@udel.edu](mailto:access-advise@udel.edu) or 302-831-8843.**



## Lifelong learning opportunities

The University of Delaware hosts Osher Lifelong Learning Institute (OLLI) programs in Bridgeville, Dover, Lewes, Ocean View and Wilmington for adults to enjoy classes, teach, exchange ideas and travel together. Try out a new language, meet with a passionate discussion group or revisit your favorite areas of study. These volunteer-based academic cooperatives typically offer more than 970 courses each year, with no grades or exams and no educational prerequisites. **See page 37 for details.**

## Customized learning and community partnerships

The University of Delaware provides customized programs designed to help your business or organization achieve its training and employee development goals. Professional coaching, executive education and customized training programs are tailored to your organization's needs and can be delivered online, on-site or on campus.

### Customized training

We design and deliver customized training and executive education programs that meet the specific needs of your organization. We utilize the advanced expertise and experience of University of Delaware faculty and external subject matter experts to provide exceptional learning opportunities for your team.

### Comprehensive instructional design and course delivery solutions

Our strong knowledge of instructional design techniques, technology applications and adult learning styles enables our educators to produce and deliver classroom-based and online programs tailored to your needs.

### Professional executive coaching

We help organizations develop employee strengths, address challenges, improve productivity and increase job satisfaction. We will design new or enhance your existing coaching programs, including executive-level services.

### Benefits to your organization

Outsourcing your organization's professional development to UD enables your employees to focus their efforts on core business issues that affect your bottom line.

Other benefits include:

- Strengthening your workforce through proven leadership programs.
- Optimizing work processes with project management and occupational safety programs.
- Improving relationships through diversity, teamwork and communications programs.

## Professional development programs and courses

UD PCS offers a variety of ways for you to build your credentials and move ahead in your career. Certificate programs, seminars, conferences and short courses provide you with practical knowledge and skills as well as resume-building credentials. Our faculty and adjunct instructors combine strong academic backgrounds with extensive real-world experience. Programs include:

- **Business & IT**—Business Analysis, Data Analytics, Design Thinking, IT Project Management, Microsoft® Excel, Nonprofit Leadership, Project Management, Sales Operations Science, Self-Paced Programs, Social Media Marketing, Web Developer Coding
- **Drone Training**—Professional Drone Pilot Training
- **Food and Hospitality**—HR Competencies for Restaurant Managers
- **Healthcare**—Advanced Telehealth Coordinator, Clinical Trials Management, Dental Symposium, Eastern Shore Medical Symposium, Medical Aspects of Sports, RN Refresher
- **Law**—Paralegal, Advanced Paralegal Seminar Series, LSAT Prep
- **Pre-College**—UD Dual Enrollment, SAT/ACT Prep, Reading/Speed Reading
- **Safety**—COSS (Certified Occupational Safety Specialist), COSM (Certificate for Occupational Safety Managers), Safe Supervisor
- **Test Preparation**—ACT, GMAT, GRE, LSAT, SAT, Praxis

**See pages 3–27 for complete program listings.**

## Online learning opportunities through UD Online

More than 240 University of Delaware credit courses—as well as 26 degree programs, certificate programs or professional development programs—are offered online, and more are developed every year. Ranging from an Associate in Arts to an MBA or M.S. in mechanical engineering, online programs from the University of Delaware are ideal solutions for students and professionals seeking to advance their education while accommodating their busy schedules. **See pages 28–32 for program listings.**

# Business and IT programs

## Free Live-Online Information Sessions

Join us for the following live-online information sessions to learn more about fall 2020 professional development programs, speak with instructors and ask questions about the programs you're interested in.

**Monday, August 17**  
7–8 p.m.

**Analytics: Optimizing Big Data**  
**Nonprofit Leadership**  
**Sales Operations Science**  
(online)

**Tuesday, August 18**  
7–8 p.m.

**Business Analysis**  
**Coding Bootcamp (.NET/C# or Java)**  
(online)  
**Microsoft Excel**  
(fundamentals to advanced)

**Wednesday, August 19**  
7–8 p.m.

**Project Management**  
**Social Media Marketing**  
(online—fundamentals to advanced)

**Thursday, August 20**  
7–8 p.m.

**Design Thinking**  
**IT Project Management**

**Meeting information**  
**sent upon registration**  
[pcs.udel.edu/info-session](https://pcs.udel.edu/info-session)

NONCREDIT CERTIFICATE | IN-CLASS

## Analytics: Optimizing Big Data Certificate

### Use data-supported solutions for improving business performance

In today's business world, data is easier than ever to collect and store. But it's the analysis of the volume, velocity and variety of big data that provides managers with knowledge that can be translated into effective decision-making and improved business performance. This certificate program brings together statistics, analysis and both written and oral communication skills through an applied approach, providing participants with the tools to join the rapidly growing data analytics field.

**PREREQUISITE:** This course uses statistics throughout the curriculum. A basic understanding of statistics is required.

#### WHO SHOULD PARTICIPATE?

- Business, marketing and operations managers
- Data analysts or professionals in any field who deal with large amounts of data
- Financial industry professionals

**SCHEDULE:** Mondays, September 14–December 16, 2020, 6–9:15 p.m. (Class meets twice in the final week on Monday and Wednesday.)

**LOCATION:** Arsht Hall, 2700 Pennsylvania Ave., Wilmington, Del.

**PRICE:** \$2,895, course materials included.  
**Payment plan, scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).**

[pcs.udel.edu/data](https://pcs.udel.edu/data)

NONCREDIT CERTIFICATE | IN-CLASS

## Business Analysis Certificate

### Bridging the business/IT divide

A business analyst bridges the “understanding gap” between an organization and its technology, functioning as a type of translator who converts business needs into measurable IT requirements and solutions. To succeed in this role, the business analyst must have a broad range of business, technical and interpersonal skills, including being able to effectively write and review detailed functional specifications as well as develop and test systems based on those requirements.

#### WHO SHOULD PARTICIPATE?

- IT professionals new to business analysis
- Employees currently working in or interested in moving to a position in which business analysis skills would be useful

#### SCHEDULE:

**Business Analysis Module 1:**  
Foundations of Business Analysis  
Tuesday, September 15 and Wednesday, September 16, 2020

**Business Analysis Module 2:**  
Eliciting and Documenting Requirements  
Tuesday, October 13 and Wednesday, October 14, 2020

**Business Analysis Module 3:**  
Requirements Analysis and Design Definition  
Tuesday, November 17 and Wednesday, November 18, 2020

**Business Analysis Module 4:**  
Solution Deployment and Evaluation  
Tuesday, December 8 and Wednesday, December 9, 2020

All classes are scheduled from 8:30 a.m. to 4:30 p.m.

**LOCATION:** 501 S. College Ave., Newark, Del.

**PRICE:** \$995 per module; course materials and daily lunch included. **Payment plan, scholarships and potential discounts**

**available, including: Early registration, Military, UD student or alum, 2 or more (group).** Save \$600 and become eligible to earn a University of Delaware Certificate of Completion by registering for all four Business Analysis modules at the same time. Offered at a bundled rate of \$3,380, this equates to more than a 15% discount versus registering for each module individually.

[pcs.udel.edu/business-analysis](https://pcs.udel.edu/business-analysis)

NONCREDIT CERTIFICATE | ONLINE

## Coding Bootcamps—.NET/C# or Java

### Step up to a coding career!

Coding Bootcamps put you on a fast track to a programming career. By receiving immersive training on a compressed schedule, you can speed your way to project-ready skills. Not everyone can reserve three or more months for nonstop training, so UD PCS, in conjunction with The Software Guild, offers Coding Bootcamp Badges. We help you master .NET/C# or Java—one skill set at a time. Our Coding Bootcamp Badges offer an affordable, flexible way to learn software development. Learn in stages, when you want, and where you want.

#### WHO SHOULD PARTICIPATE?

- Recent college graduates
- Professionals embarking on a new career
- Gamers
- Problem-solvers

**SCHEDULE:** Classes start monthly.

**LOCATION:** Online

**PRICE:** \$10,000 for all four badges, or \$2,000 to \$3,000 per badge  
Discounts available

[pcs.udel.edu/coding-bootcamp](https://pcs.udel.edu/coding-bootcamp)

CREDIT CERTIFICATE | HYBRID-ONLINE

## Business Essentials Certificate

Undergraduate credit certificate program focused on business essentials for non-business professionals. See page 29.

NONCREDIT SHORT COURSE | IN-CLASS

## Design Thinking Workshop

Design thinking is an iterative process in which we seek to understand a problem, get to know users, challenge assumptions and redefine challenges in an attempt to identify alternative strategies and solutions that might not be instantly apparent with our initial level of understanding. At the same time, design thinking provides a solution-based approach to solving problems by embracing creativity techniques, customer co-creation and experimental design. It is a way of thinking and working as well as a collection of hands-on methods.

Immerse yourself in the value of design thinking with this two-day workshop that covers the framework, the mindsets and proven techniques you can use to achieve superior solutions to the problems of your business. Gain hands-on experience with the tools and templates via a real design thinking challenge that focuses on a common user experience problem. This training is meant for aspiring design thinkers, UX designers and design strategists, as well as existing practitioners and executives seeking to incorporate design- and human-centricity into company strategy in order to optimize customers' and employees' experiences with their company/solution/product/brand.

**SCHEDULE:** Tuesday and Wednesday, October 20 and 21, 2020, 8:30 a.m.–4:30 p.m.

**LOCATION:** 501 S. College Ave., Newark, Del.

**PRICE:** \$1,495, course materials and daily lunch included. **Scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).**

[pcs.udel.edu/design-thinking](https://pcs.udel.edu/design-thinking)

## MICROSOFT® EXCEL

Regardless of your role in an office, there is a good chance you need to be proficient in the use of Microsoft® Excel. With more than 2 million recent employment postings requiring Microsoft® Excel® ability, it is one of the most in-demand occupational skills. The software's broad range of applications can be utilized for everything from simple number-crunching to complex business decisions. Our foundational and advanced classes are designed to equip you with the skills needed in today's job market.

NONCREDIT COURSE | IN CLASS

## Microsoft® Excel Essentials

Gain the foundational skill set needed to navigate throughout the Microsoft® Excel application with confidence and acquire familiarity with Excel's data management capabilities. Learn to summarize datasets and prepare a workbook for distribution on a professional level.

#### WHO SHOULD PARTICIPATE?

- Students, recent graduates and other job seekers who are looking to add marketable skills to their resumes
- Anyone wishing to learn the fundamental operations of Excel

**SCHEDULE:** Tuesdays, September 8–29, 2020, 6–9 p.m.

**LOCATION:** 501 S. College Ave., Newark, Del.

**PRICE:** \$475, course materials included.  
Please bring your laptop and charger.

**Scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).**

[pcs.udel.edu/ms-excel](https://pcs.udel.edu/ms-excel)

## NONCREDIT COURSE | IN-CLASS

## Microsoft® Excel Advanced Concepts

Gain the skill set needed to work with complex datasets using advanced functions and formulas in Microsoft® Excel. Learn to present data insights using advanced charting techniques, set up forms for collaborative workplace projects, and prepare interactive pivot tables for distribution on a professional level.

### WHO SHOULD PARTICIPATE?

- Students, recent graduates and other job seekers with Excel skills who wish to learn advanced Excel concepts

**SCHEDULE:** Tuesdays, October 6–27, 2020, 6–9 p.m.

**LOCATION:** 501 S. College Ave., Newark, Del.

**PRICE:** \$475, course materials included. Please bring your laptop and charger. **Scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).**

[pcs.udel.edu/ms-excel](https://pcs.udel.edu/ms-excel)

## NONCREDIT COURSE | IN-CLASS

## Microsoft® Excel Advanced Reporting and Analytics

Gain the advanced skills for creating interactive dashboard reports and data visualizations in Microsoft® Excel by using the capabilities of Power View, Power Pivot and DAX formulas. Focus expands from traditional pivot tables to state-of-the-art Power Pivot data modeling. Students will be able to apply these techniques immediately in their place of work.

### WHO SHOULD PARTICIPATE?

- Students, recent graduates and other job seekers with Excel skills who wish to learn advanced Excel reporting and analytics

**SCHEDULE:** Wednesdays, November 4–December 2, 2020, 6–9 p.m. (no class 11/25)

**LOCATION:** 501 S. College Ave., Newark, Del.

**PRICE:** \$475, course materials included. Please bring your laptop and charger. **Scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).**

[pcs.udel.edu/ms-excel](https://pcs.udel.edu/ms-excel)

## NONCREDIT CERTIFICATE | IN-CLASS

## New! Introduction to Nonprofit Management

In these challenging times, there is no better time to change the world through a career in the nonprofit sector. Gain an understanding of nonprofit organizations and the issues managers face in this impactful and growing field. Participants will be exposed to several areas of responsibility for nonprofit leaders, including strategy, board governance, budgeting, fundraising, grant writing, managing employees and volunteers, and more.

### WHO SHOULD PARTICIPATE?

- Early-career professionals working in the nonprofit sector
- Midcareer professionals transitioning from other sectors

**SCHEDULE:** Tuesdays, 5:30–8:30 p.m., September 8–December 15, 2020

**LOCATION:** Community Service Building, 100 West 10th Street, Wilmington, DE 19801.

**PRICE:** \$1,500. **Discounts and financial assistance options available. Package pricing available for organizations that send more than one person from their nonprofit team.**

[pcs.udel.edu/nonprofit-training](https://pcs.udel.edu/nonprofit-training)

## NONCREDIT CERTIFICATE | IN-CLASS

## Nonprofit Leadership Certificate

Designed for staff and board members of small to midsize nonprofit organizations, the Nonprofit Leadership Certificate program provides training for nonprofit leaders wishing to manage their organizations efficiently and effectively. Taught by accomplished trainers in the nonprofit sector, this course allows participants to develop action plans for their organizations while also providing a valuable peer-to-peer networking opportunity. Topics include:

- Organizational assessment and strategy
- Financial management
- Fundraising and marketing
- Strategic technology planning
- Leadership in nonprofit organizations
- Board governance

- HR management, employment law
- Program management and decision-making
- Volunteer management
- Advocacy and conflict resolution
- Leadership succession planning

### WHO SHOULD PARTICIPATE?

- Executives, midlevel managers and program managers of nonprofit organizations
- Managers and leaders transitioning to the nonprofit sector from other sectors

**SCHEDULE:** Thursdays, February 11–May 27, 2021, 8:30 a.m.–4:30 p.m.

**LOCATION:** 100 West 10th St., Community Service Building, Suite 812, Wilmington, Del.

**PRICE:** \$2,495. **Discounts and financial assistance options available. Early bird discount of \$500 available through mid-December. Package pricing available for organizations that send more than one person from their leadership team.**

[pcs.udel.edu/nonprofit-training](https://pcs.udel.edu/nonprofit-training)

## NONCREDIT CERTIFICATE | IN-CLASS, ONLINE

## Project Management Certificate

### Learn project management best practices and theories

Successful companies and organizations in every sector use project management to achieve breakthrough results. The powerful and versatile tools of project management are transferable to any work environment and can be used to manage any project.

The curriculum applies PMBOK® (A Guide to the Project Management Body of Knowledge®) Sixth Edition principles as well as the Agile Practice Guide with its focus on change management to assist you in attaining the Project Management Institute's (PMI)® Project Management Professional (PMP)® designation.

### WHO SHOULD PARTICIPATE?

- Newly promoted or aspiring project managers
- Project leaders interested in achieving the next level of management skills
- Project managers seeking entry into the Project Management Institute's PMP® certification process



# BABY BOOMER LEADS YOUNGER STUDENTS

By Adam S. Kamras

Although Tony Powell was used to being the oldest person in the classroom, the former high school English teacher did not know what it felt like to be the oldest student until his first day of the Fundamentals of Social Media Marketing Certificate program offered by the University of Delaware's Division of Professional and Continuing Studies (UD PCS).

After settling into a seat facing the front of the room, rather than standing in his more customary position at the head of the class, the 62-year-old Powell estimated that there was at least a

20-year gap between him and his next oldest classmate.

"I was intimidated and stayed silent for the first couple of classes," said Powell. "After that, I said, 'No, what I am doing? This is me; I'm a gregarious person.'"

Instructor Nancy Dibert, the founder and CEO of Epic Marketing Consultants Corporation, recognized Powell's initial uneasiness but commended him for his rapid turnaround.

"Tony looked like he felt like a fish out of water at the beginning of the fundamentals class, but as soon as we began our group project he jumped in with both feet and immediately became a team leader," said Dibert. "It's not like he tried to grab the control; it was just that he was so passionate about it and committed to it."

## Multigenerational classes

Realizing he had much more to offer than he initially thought, Powell carried that mindset into the Advanced Social Media Marketing for Business Certificate program and said he came out swing-

ing in the second course. He eagerly took advantage of his knowledge from the fundamentals class, as well as his life's experiences, and embraced the chance to make connections with his younger classmates.

"UD's social media classes have redevelop-

oped my confidence in myself and my ability to interact with people," said Powell. "I have learned that I am not completely out of touch with millennials and Gen Zers."

Though there was a wide age difference between Powell and his fellow learners, this is not the norm for UD PCS classes. In 2019, 47% of all

UD PCS students were 45 or older and 17% were at least 55. Dibert said she appreciates the value of a multigenerational learning environment and the perspectives brought to the classroom by someone like Powell.

## Open for business

Powell describes his time in the two classes as a fascinating journey and said he has increased his social media marketing ability exponentially. An avid social media user, who was embracing his passion for rhythm and blues music with a blog and a couple of Facebook pages, he was looking to do something different after retiring from his teaching career. He read the descriptions for the social media marketing courses, as well as firsthand accounts provided by previous students, and was intrigued by the prospect of turning his hobby into a profession.

"Social media marketing is a wide open field," said Powell, who turned 63 in February. "All you have to do is pull up In-

deed and see the tons of open jobs. I said, 'Wouldn't that be crazy to start my own agency at my age.'"

Shortly after completing the fundamentals class, Powell posted his certificate on Facebook and promptly received several inquiries from organizations looking for assistance with their social media initiatives. With the support of the Delaware Small Business Development Center, he started a business and was hired by a local church as his first client.

"The fundamentals class taught me how to build and engage an audience organically," said Powell. "You can do a lot organically, but in the advanced class we learned that you need to use advertising to get the numbers you need."

## Online classes

Previously offered in a hybrid format of online and classroom sessions, both social media marketing courses are now being conducted completely online.

"An online class allows you to work at your own pace," said Powell. "Because my days off fluctuate, I am not always available to attend class on a certain day. The asynchronicity is definitely an advantage."

"UD'S SOCIAL MEDIA CLASSES  
HAVE REDEVELOPED MY  
CONFIDENCE IN MYSELF AND  
MY ABILITY TO INTERACT  
WITH PEOPLE. I HAVE LEARNED  
THAT I AM NOT COMPLETELY  
OUT OF TOUCH WITH  
MILLENNIALS AND GEN ZERS."

—TONY POWELL



EVAN KRAPE



**SCHEDULE/LOCATIONS:**

Mondays, September 14–November 16, 2020,  
6–9:30 p.m.; Online

Wednesdays, October 7–December 9, 2020,  
6–9:30 p.m.; Arsh Hall, 2700 Pennsylvania  
Ave., Wilmington, Del.

**PRICE:** \$2,595, textbooks included. **Payment plan, scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).**



This certificate is a great starting point for attaining the Project Management Institute's (PMI)® Project Management Professional (PMP)® designation. This program meets the education requirement for the Project Management Institute (PMI)® credential.

[pcs.udel.edu/project](https://pcs.udel.edu/project)

**NONCREDIT CERTIFICATE | IN-CLASS**

## New! IT Project Management Certificate

Information technology is at the heart of every organization, and project management is a fast growing, crosscutting professional discipline spanning all industries. Leading successful value-adding IT projects in an organization requires leadership, knowledge of its business strategy and technical project management skills.

Covering Waterfall, Agile and Hybrid methodologies, this program examines the breadth of the IT project management discipline. A foundation for directly applying the tools, processes and methods to support the management and delivery of successful IT projects, including value creation through strategic execution of an IT project portfolio, is provided. We will focus on how an information technology project methodology (ITPM) is applied to create measurable organizational value (MOV).

**PREREQUISITE:** Students must be familiar with the components of an IT environment and application architecture. Programming skills are not required.

**WHO SHOULD PARTICIPATE?**

- Newly appointed or aspiring IT project managers
- Experienced project leaders who want to take their management skills to the next

level or shift to a hybrid approach

- IT managers who want to apply the discipline of project management to make their organizations more effective and more competitive
- Project managers seeking entry into the Project Management Institute's PMP® (Project Management Professional) certification process

**SCHEDULE:** Thursdays, September 17–December 10, 2020, 6–9:30 p.m. (no class on November 26)

**LOCATION:** 501 S. College Ave., Newark, Del.

**PRICE:** \$2,795. **Payment plan, scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).**

[pcs.udel.edu/it-project](https://pcs.udel.edu/it-project)

**NONCREDIT CERTIFICATE | ONLINE**

## New! Sales Operations Science Certificate

The Sales Operations Science Certificate program is uniquely designed to give you the skills and applied learning experience to kick-start your career or take it to the next level in just 10 weeks. Delivered live and online, this comprehensive program is taught by industry experts and covers all the key areas required to be effective at driving the productivity and capacity of a company's selling resources. You will collaborate with your team to create a well-designed, relevant strategic sales operations playbook to help a real-world company engage with more prospects, produce more pipeline, improve key processes and generate more revenue. In addition, you will walk away with a curated collection of Salesforce Trailhead trails and badges, including Sales Performance Analysis, Sales Team Enablement, Territory Management, Formulas and Validations, Reports and Dashboards, and Data Management.

Weekly, you should expect to spend one to two hours in live-online sessions and an additional four to six hours completing assignments, acquiring badges and building your project playbook.

**WHO SHOULD PARTICIPATE?**

- Recent college graduates considering a role in a sales capacity
- Those aspiring to enter or reenter a

sales-related profession and want to build new skill sets and earn related Salesforce credentials

- Sales, sales operations or business analyst professionals with one to three years of experience looking to upgrade their skill sets and long-term growth opportunities
- Working professionals looking to make a shift into sales operations or expanding potential by becoming more knowledgeable about other aspects of a business, such as finance, business operations or other related areas
- Anyone who wants to acquire new and in-demand technology skills in a sales role

**SCHEDULE:** Tuesdays, October 6–December 8, 2020, 7–9 p.m.

**LOCATION:** Online

**PRICE:** \$1,995, course materials included. **Potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).**

[pcs.udel.edu/sales-operations](https://pcs.udel.edu/sales-operations)

**NONCREDIT CERTIFICATE | ONLINE**

## Fundamentals of Social Media Marketing Certificate

In today's ever-changing landscape, organizations need effective social media marketing strategies to reach their full potential. This program introduces students to leveraging social media to build and extend brand awareness, increase visibility, engage current and potential customers, cultivate brand ambassadors, gain new customers, promote growth, and support organizational goals.

Students will learn the fundamentals and best practices—monitoring and listening, audience engagement, content curation, campaign planning and execution, tools and resources, and measuring results—for using social media for marketing on current, new and emerging platforms, including Facebook, Twitter, LinkedIn, Instagram, Snapchat, YouTube and Pinterest.

The course begins with a live-online introductory session on the first night. For the remaining lessons, students will watch recorded lectures at their convenience and have until Sunday to complete each

week's assignments. The instructor will be available to meet weekly during live video-conferencing office hours.

Participants will conduct a project for an organization of their choosing. As they explore leveraging social media platforms to support organizational goals, they can opt to receive detailed, constructive feedback on all assignments.

#### WHO SHOULD PARTICIPATE?

- Business owners who want to utilize or optimize social media marketing to reach their clients
- Aspiring social media managers
- Marketing and communication professionals
- Consultants
- Nonprofit employees and volunteers
- Sales professionals
- Anyone looking to start a social media marketing business

**SCHEDULE:** September 14–November 8, 2020 (self-paced online course with first session live-online and weekly scheduled assignments)

**LOCATION:** Online sessions

**PRICE:** \$995. *Payment plan, scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).*

[pcs.udel.edu/socialmedia](https://pcs.udel.edu/socialmedia)

#### NONCREDIT CERTIFICATE | ONLINE

## Advanced Social Media Marketing for Business Certificate

In today's digital world, brands, businesses and organizations are turning to social media for advertising, customer service, human resources, market research, revenue growth and more. There are audiences to be engaged, communities to be managed, influencers and advocates to be guided, content to be created, ad strategies to be developed, profiles to be optimized, and an assorted laundry list of daily tasks that need to be addressed.

UD's Advanced Social Media Marketing for Business Certificate course teaches students with fundamental to midlevel social media marketing skills to effectively and success-

fully leverage the power of social media to support organizational goals.

By working in teams with nonprofit organizations, students get in-depth, hands-on experience to research, plan, develop, integrate, execute and analyze the outcomes of comprehensive social media marketing strategies, integrated campaigns, targeted content and paid placement.

Students master skills to drive engagement through targeted, innovative social media marketing campaigns, gaining firsthand experience with industry standard tools such as Sprout Social and Rival IQ. Class members learn methodologies for creating, executing and evaluating goal-oriented social media marketing strategies across multiple social media platforms.

Classes include online lectures, multimedia demonstrations, detailed content and examples, case studies, open online discussions, and testimonials from businesses successfully using social media marketing. Past guest speakers have included industry experts Jason Falls and Samantha Toscano.

This class offers dynamic, interactive, fast-paced and highly engaging content to ensure participants are ready to take on today's social media landscape. Students will have until Sunday to complete each week's assignments while collaborating and working on the group project. Plan to allocate eight to 12 hours per week toward this program.

#### WHO SHOULD PARTICIPATE?

- Aspiring and current social media managers
- Marketing and communication professionals
- Consultants
- Nonprofit employees and volunteers
- Business owners
- Anyone looking to start a social media marketing business

**SCHEDULE:** August 24–December 6, 2020 (self-paced online course with weekly scheduled assignments and deadlines)

**LOCATION:** Online sessions

**PRICE:** \$2,995. *Payment plan, scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).*

[pcs.udel.edu/socialmedia](https://pcs.udel.edu/socialmedia)

#### NONCREDIT CERTIFICATE | ONLINE

## New! Self-Paced Programs and Certificates

In collaboration with MindEdge, a leader in online education founded by Harvard University and Massachusetts Institute of Technology educators in 1998 with a mission to improve the way the world learns, we are pleased to offer the following programs that enable you to learn anytime, anywhere and across multiple devices. Check our website for the full list of offerings as new programs may be added based on demand.

- AEM®/CEM® Prep (U.S. version)
- Agile Certified Practitioner (PMI-ACP)® Exam Prep
- Business Communication
- Business Finance Essentials for Non-financial Managers
- CISSP® Exam Prep
- CompTIA Security+® Exam Prep
- Emerging Technology for Managers (AI, Blockchain and Robotics)
- Foundations of Human Resource Management
- GED Exam Prep
- Introduction to Emergency Management in the U.S.
- LEED® Green Associate V4™ Exam Prep
- Managing Change and Resolving Conflict
- Microsoft® Project Basics
- Microsoft® Project Intermediate

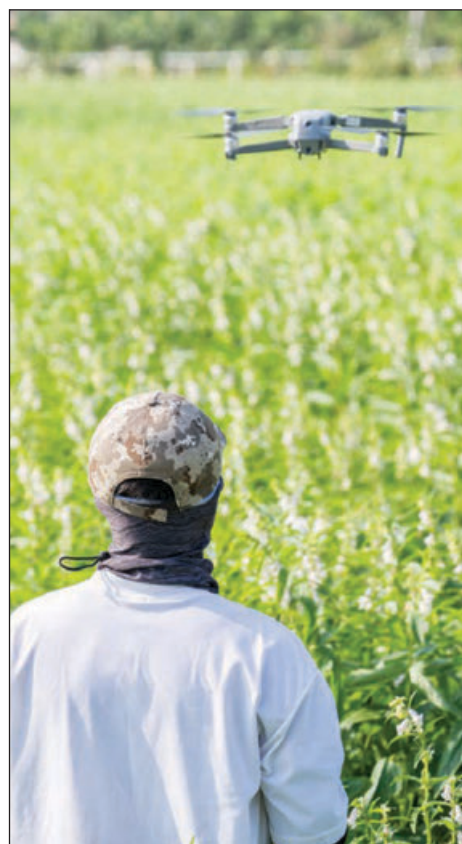
[pcs.udel.edu/self-paced](https://pcs.udel.edu/self-paced)

*Potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).*

# Drone training programs

## PROFESSIONAL DRONE PILOT TRAINING ACADEMY

The award-winning UD PCS drone training programs provide in-demand, multifaceted training at the best possible value. Our popular drone training offerings provide comprehensive unmanned aerial systems (sUAS) training to drone novices and advanced users alike. Whether you are a beginner who is seeking FAA Part 107 remote pilot certification, an advanced pilot responsible for lifesaving tactical missions, or an engineer looking for more efficient surveying and inspection techniques, we have a course that fits your needs and skill level. Designed to be completed over a single weekend, the courses provide industry-leading instruction and feature highly qualified sUAS experts with extensive flight experience in practical applications.



## FOUNDATIONAL CLASSES

### NONCREDIT COURSE | IN-CLASS

## Professional Drone Pilot: Ground School and FAA Part 107 Test Prep

### Are you certified?

Legally flying a drone for commercial use requires an FAA Part 107 remote pilot certificate. During this intensive course, flight instructors provide comprehensive classroom training and prepare drone pilots for the Federal Aviation Administration's airman knowledge test, which must be passed to earn the certificate. Topics include regulations, airspace, weather, loading and performance, and operations.

**SCHEDULE:** Saturday, September 19 and Sunday, September 20, 2020, 8:30 a.m.–5 p.m.

**LOCATION:** 501 S. College Ave., Newark, Del.

**PRICE:** \$395. *Scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).*

[pcs.udel.edu/drones](https://pcs.udel.edu/drones)

### NONCREDIT COURSE | IN-CLASS

## Professional Drone Pilot: Foundations of Flight

### Ready to fly your drone?

Learn the basics of flying small unmanned aircraft systems (sUAS). Topics include familiarization with various aircraft and system components, basic flight planning, safe flight deck setup and operations, basic flight maneuvers, emergency procedures, autonomous flight mode options, multi-aircraft mission design, and effective programmatic record keeping. Students will become familiar with and receive individual hands-on flight time with a variety of aircraft systems, such as the DJI Mavic, DJI Phantom 4 Pro and DJI Inspire I.

**SCHEDULE:** Saturday, October 17 and Sunday, October 18, 2020, 8:30 a.m.–5 p.m.

**LOCATION:** 501 S. College Ave., Newark, Del.

**PRICE:** \$995. *Scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).*

[pcs.udel.edu/drones](https://pcs.udel.edu/drones)

## Customized Drone Training

Intermediate and advanced drone training programs are available through our customized on-site training for your group. Sample training topics include:

- Aerial Mapping and Inspection
- Aerial Imaging
- Night Operations and Thermal Imaging
- Matrice M210 Operator Proficiency
- D3P™ Drone Program Manager Proficiency Training

**Contact us today to discuss your group's training needs.**



# AWARD-WINNING DRONE PROGRAM

By Adam S. Kamras

With a continually growing list of occupations that includes, but is certainly not limited to, first responders, insurance adjusters, realtors, photographers, marketers, engineers, roofers, accident scene investigators and emergency management professionals, it is hard to find a field that cannot benefit from drones.

The FAA Aerospace Forecast for Fiscal Years 2018-2038 reported there will be tremendous opportunities for employment growth linked with commercial activities of unmanned aerial systems. *Inc.* magazine said as the registered commercial drone fleet climbs, every few new drones creates at least one job, at a minimum, to maintain, deploy and operationalize the asset. As a result of this, a workforce of about 400,000 is being created in just a few years.

## In-demand program

The University of Delaware's Division of Professional and Continuing Studies (UD PCS) responded to this need by launching the Professional Drone Pilot Training Academy in March 2018. More than two months before the initial session was held, all 20 seats were sold and an additional section was added. In recognition of the success of the academy, which has served more than 200 students in the first two years, UD PCS was honored with the 2019 University Professional and Continuing Education Association (UPCEA) Mid-Atlantic Region Outstanding Program Award.

Presented for an effective, innovative and exceptional credit or noncredit program, the award-winning program is required to demonstrate a contribution to the field of continuing education and be able to be replicated by other institutions of higher education, be original and innovative to the continuing education field and/or to the institution, exhibit quality and effectiveness, and be cost-

**"WE QUICKLY REALIZED THERE IS A TREMENDOUS NEED FOR PROFESSIONAL DRONE PILOT TRAINING IN THE MID-ATLANTIC."**

—VIC WANG



effective in a manner consistent with the stated program objectives.

## Customized training offered

Designed to accommodate working professionals, the drone training classes can be completed over a single weekend. Individuals can enroll in the classroom-based Ground School and FAA Part 107 Test Prep and hands-on Foundations of Flight. Both of these courses, and many others, are also offered through customized onsite training.

"We quickly realized there is a tremendous need for professional drone pilot training in the Mid-Atlantic and are the region's first university-affiliated provider to offer a full suite of year-round options for both individuals and onsite for organizations," said Vic Wang, UD PCS manager, customized learning. "Our highly qualified instructors have considerable flight experience, which adds substantial depth and credibility to the education."



## Classroom and hands-on

Ground School and FAA Part 107 Test Prep provides comprehensive classroom training and prepares drone pilots for the Federal Aviation Administration's airman knowledge test, which must be passed to earn the FAA Part 107 remote pilot certificate that is required to legally fly a drone for commercial use.

"Because of all the material to grasp, I was really nervous going into the exam," said Tavis Miller, a collision reconstructionist with a municipal police agency in Delaware. "But then I saw that everything they taught us was on the test. They didn't provide us with the actual questions, but all of the information was applicable."

Miller also enrolled in Foundations of Flight, which provides students with individual flight time on a variety of aircraft systems, and appreciated the interactive format of both classes.

"Even with Ground School and FAA Part 107 Test Prep, there was a lot of class participation, which made it easier to grasp everything as opposed to just lecture and death by PowerPoint," said Miller.



# Education programs

## CONFERENCE

### Delaware's Inclusion Conference

The Inclusion Conference is designed to address the needs of educators, parents, policymakers, service providers and child-care providers involved with or interested in promoting inclusion for all individuals, from birth to 21, regardless of their physical, mental, cognitive or developmental abilities.

**Coming soon. For updated details about this year's event, please visit [pcs.udel.edu/inclusion-conference](https://pcs.udel.edu/inclusion-conference).**

## CREDIT DEGREE | HYBRID-ONLINE

### Master of Arts in Economics and Entrepreneurship for Educators

Hybrid/online graduate program preparing educators teaching economic, entrepreneurial and financial literacy. See page 29.

## CREDIT DEGREE | ONLINE

### Master of Education in Teacher Leadership

Online graduate degree program focused on equipping teachers to be leaders in the classroom and in their schools. See page 30.

## CREDIT DEGREE | ONLINE

### Master of Education in Educational Technology (M.Ed.)

Online graduate degree designed to provide both a theoretical and a practical grounding in educational technology methods and techniques. Program content aligns with the International Society for Technology in Education (ISTE) and the Association for Educational Communications and Technology (AECT). See page 30.

## CREDIT DEGREE | ONLINE

### Master of Education in Exceptional Children and Youth (M.Ed.)

Online graduate degree program preparing teachers to meet the academic, social and behavioral needs of students with exceptional learning needs across all grade levels. See page 30.

## CREDIT DEGREE | ONLINE

### Master of Education in Literacy (M.Ed.)

Online graduate degree program preparing teachers for certification and career opportunities as reading or literacy specialists in their schools and districts. See page 30.

## CREDIT COURSE | IN-CLASS

### Alternative Routes to Teacher Certification (ARTC)

ARTC offers an alternative route to traditional teacher certification in Delaware. Through ARTC, qualified individuals complete certification requirements while employed as full-time teachers via education coursework and intensive, school-based supervision and mentoring. For details, see [artc.udel.edu](https://artc.udel.edu).

## NONCREDIT COURSE | LIVE-ONLINE

### Praxis Core Live-Online Test Prep

The Praxis Core Live-Online Test Prep courses (Core Math 5732 and Core Reading and Writing 5712/5722) are designed to help you improve your skills, confidence and score, all of which increase your chance of admission into the teacher preparation or certification program of your choice.

[pcs.udel.edu/praxis-test-prep](https://pcs.udel.edu/praxis-test-prep)

## PROFESSIONAL CERTIFICATION PROGRAM

### UD Montessori Teacher Residency (UDMTR)

The University of Delaware's new Montessori teacher training program combines in-school teacher residency with coursework and coaching to provide comprehensive teacher preparation. Upon successful completion, participants receive a MACTE-accredited (Montessori Accreditation Council for Teacher Education) diploma. UD's program is relevant for public and independent Montessori schools and teachers interested in training for the Montessori classroom or expand Montessori opportunities in their schools.

[pcs.udel.edu/udmtr](https://pcs.udel.edu/udmtr)

# Engineering and science programs

CREDIT CERTIFICATE | ONLINE

## Composites Manufacturing and Engineering Certificate

Intended to provide the practicing engineer a strong foundation in the processing-structure-property relations in advanced fiber composites. See page 31.

CREDIT CERTIFICATE | ONLINE

## Graduate Certificate in Applied Bioinformatics

Online graduate certificate program aimed at working professionals in the life sciences or in the data and computational sciences who wish to gain knowledge and practical experience in bioinformatics. See page 30.

CREDIT CERTIFICATE | ONLINE

## Graduate Certificate in Biomedical Informatics and Data Science

Online graduate certificate program aimed at working professionals in the life sciences or in the data and computational sciences who wish to gain knowledge and practical experience in biomedical informatics and data science. See page 30.

CREDIT CERTIFICATE | ONLINE

## Graduate Certificate in Cybersecurity

Online graduate certificate for undergraduates in engineering, computer engineering, computer science, mathematics, physics or related disciplines. See page 31.

CREDIT CERTIFICATE | ONLINE

## Graduate Certificate in Minerals, Materials and Society

Graduate certificate aimed at industry, government and civil society professionals working across mineral and extractive supply chains. See page 31.

CREDIT DEGREE | ONLINE

## Master of Science in Cybersecurity

Online graduate degree combining research and theory with application to address today's cybersecurity issues. See page 31.

CREDIT DEGREE | ONLINE

## Master of Science in Electrical and Computer Engineering

Online graduate degree aimed at engineers with prior degrees in electrical, computer or mechanical engineering, or in computer science or mathematics. See page 31.

CREDIT DEGREE | ONLINE

## Master of Science in Mechanical Engineering (MSME)

Covers not only the foundations of solid mechanics, fluid mechanics, heat transfer and dynamics, but also electives in biomechanics, clean energy and environment, composite materials and manufacturing, energy-efficient mobility systems and smart cities, robotics and controls, and more. See page 31.

CREDIT CERTIFICATE | ONLINE

## Railroad Engineering Certificate

Online graduate certificate program designed for engineering professionals who wish to expand their knowledge of railroad engineering for advancement in the railroad industry. See page 31.

NONCREDIT SHORT COURSE | ONLINE

## Progressive Composite Damage Modeling in LS-DYNA

Offered by UD's Center for Composite Materials, this course is relevant for engineering and science professionals who wish to expand their knowledge of the mechanics of composite materials, including theory and practice of the MAT162 composite damage model with applications to low and intermediate impact velocities, understanding the LS-DYNA programming parameters related to impact-contact, damage evolution, perforation and penetration of thin- and thick-section composites.

**SCHEDULE:** July 14, 2020 or November 17, 2020, 9 a.m.–4 p.m.

**LOCATION:** Online webinar

**PRICE:** \$695, includes USB with course materials

[ccm.udel.edu/software/mat162/mat162\\_workshop](https://ccm.udel.edu/software/mat162/mat162_workshop)

# Food and hospitality programs

NONCREDIT CERTIFICATE | ONLINE

## HR Competencies for Restaurant Managers

This dynamic online program addresses the unique human resources issues faced by restaurant managers, supervisors and staff. Developed in partnership with the Delaware Restaurant Association and taught by experts in labor law, human resources, restaurant operations and hospitality business research, this program benefits restaurant and food service general managers, supervisors and chefs, as well as anyone on the restaurant team who aspires to advance in the industry. Key topics include HR law, recruitment and retention, change leadership and organizational culture.

**SCHEDULE:** Coming soon.

**PRICE:** \$995, program materials included.

Discounts, financial assistance available.

[pcs.udel.edu/restaurant-hr](https://pcs.udel.edu/restaurant-hr)



## POWER UP YOUR CAREER! FREE ONLINE SERIES

### Career and personal strategies to navigate the current economy

The University of Delaware's Division of Professional and Continuing Studies (UD PCS) is offering its Power Up Your Career seminar series free of charge this summer and fall.

The professional development mini-program is open to anyone looking for practical and immediately applicable career tips and resources like networking, job-search strategies, virtual interviews and more. Upcoming topics include:

- **Gearing Up for a Potential Job/Career Shift Due to the Coronavirus (COVID-19) Pandemic (July 16, August 13)**
- **Networking, Locating and Applying for Positions (July 16)**
- **Acing the Virtual Interview (August 13)**
- **Why Writing Email Is a Skill and Why It Matters (September 12)**
- **Resiliency in Personal and Professional Setbacks (October 10)**
- **How to Speak Up in Meetings and When to Hold Back (November 14)**
- **Building Relationships through Storytelling (December 12)**

Power Up Your Career seminars have been a regular Professional and Continuing Studies offering for nearly a decade, and are currently **free and open to the public**.

"This seminar series is the perfect venue for reaching out to the community to share career tips and strategies relevant for the current environment," said Lynn Fishlock, series coordinator and program manager for UD's Division of Professional and Continuing Studies. "Career coaches Gay Lynch and Andrea Abernethy enthusiastically stepped up to the plate for the summer series because they too understand the many challenges people are facing right now," added Fishlock.

Suprawee Tepsuporn, assistant dean for graduate professional development in UD's Graduate College, is leading the session on virtual interviews. "Based on my conversations with our graduate students, there is anxiety and concerns around the uncertainty of the job market. With the rising unemployment rate and changing landscape of the job market, these worries extend far beyond UD campuses," said Tepsuporn.

"We're especially pleased to offer this series to the community at this time," added Fishlock. "We hope the sessions can help participants become better prepared and positioned to successfully meet the challenges they may be facing."

Visit [pcs.udel.edu/power-up](https://pcs.udel.edu/power-up) for schedule, session details and to RSVP.

# Healthcare/Health sciences programs

## Free Live-Online Information Session

Join us for the following live-online information sessions to learn more about Fall 2020 professional development programs, speak with instructors and ask questions about the programs you're interested in.

**Tuesday, August 18**  
**7–8 p.m.**

**Clinical Trials Management**  
(online)

**Wednesday, August 19**  
**7–8 p.m.**

**Telehealth Coordinator**  
(online)

**Meeting information**  
**sent upon registration**

[pcs.udel.edu/info-session](https://pcs.udel.edu/info-session)



NONCREDIT CERTIFICATE | ONLINE

## Advanced Telehealth Coordinator Online Certificate

**Learn to coordinate telehealth technologies to improve access to healthcare specialties and services**

Telehealth initiatives hold exciting potential to address healthcare access issues from shortfalls in critical healthcare specialties and accessibility issues in underserved geographic locations. Telehealth also provides innovative ways to meet the demands of an aging population, reduce inappropriate use of emergency departments, prevent hospital readmissions, and bring care to the most appropriate setting and more. This 15-week program provides the foundations of telehealth for participants interested in utilizing it for the delivery of healthcare.

### WHO SHOULD PARTICIPATE?

Clinicians and administrators from a wide variety of healthcare disciplines within behavioral and medical healthcare, including:

- Physicians, physician assistants
- Dentists, dental hygienists
- Nurses, nurse practitioners
- Health educators
- Counselors
- Social workers
- Physical therapists
- Occupational therapists
- Speech therapists
- IT professionals
- Prior telehealth experience not required.

**SCHEDULE:** September 7–December 14, 2020 (online course with some scheduled requirements and assignments)

**PRICE:** \$1,495, program materials included.

**Payment plan, potential discounts available: Early registration, Military, UD student or alum, 2 or more (group).**

4.5 Continuing Education Units

[pcs.udel.edu/telehealth](https://pcs.udel.edu/telehealth)

NONCREDIT CERTIFICATE | ONLINE

## Clinical Trials Management Online Certificate

**Prepare for diverse career opportunities in this dynamic and challenging field**

Opportunities in the field of clinical trials management range from the principal role of investigator to the supportive tasks surrounding regulatory compliance, scientific writing, marketing, data management and more. Employment settings include pharmaceutical, biotechnology, medical device companies, contract research, hospitals, educational institutions and independent contractors. This program covers site management, data management, U.S. regulatory and legal implications, safety and auditing, and marketing a product, including core concepts consistent with the Association of Clinical Research Professionals (ACRP) certification exams, a valuable credentialing opportunity for clinical research professionals. For exam details, including eligibility requirements, visit [acrpnnet.org](https://acrpnnet.org).

### WHO SHOULD PARTICIPATE?

- Clinicians and other professionals currently involved in the clinical trials process
- Professionals with a strong science or healthcare-related background wishing to expand their knowledge in the clinical trials field

**SCHEDULE:** September 7–December 7, 2020 (online course with some scheduled requirements and assignments)

**PRICE:** \$2,125, program materials included.

**Potential discounts available: Early registration, Military, UD student or alum, 2 or more (group).**

2.0 Continuing Education Units

[pcs.udel.edu/clinical-trials](https://pcs.udel.edu/clinical-trials)



## CONFERENCE

## Continuing Dental Education Summer Symposium

**Current topics for general dentists, dental hygienists, dental assistants and dental students**

The Continuing Dental Education Summer Symposium is for general dentists, dental hygienists, dental assistants and dental students seeking continuing dental education and updates in the field. Recent topics include sleep dentistry, patient safety and dental safety, pharmacology, endodontics, and new dental materials and techniques.

*The program is cosponsored by Dodd Dental Laboratories and the University of Delaware's Division of Professional and Continuing Studies.*

**SCHEDULE:** Monday–Friday, July 19–23, 2021, 8 a.m.–noon

**LOCATION:** Atlantic Sands Hotel and Conference Center, Rehoboth Beach, Del.

**PRICE:** Weekly rate is \$750 (dentists) or \$375 (dental hygienists or other team members); daily rate is \$225 (dentists) or \$100 (dental hygienists or other team members); \$80 students (weekly or daily). Registration includes program materials, online certificates of attendance and continental breakfast. Participants assume responsibility for lodging and all other meals.

[pcs.udel.edu/dental](http://pcs.udel.edu/dental)

## CONFERENCE

## 43rd Eastern Shore Medical Symposium

**Comprehensive coverage of current topics for physicians and other healthcare professionals**

The Eastern Shore Medical Symposium combines quality education with a great location, where primary care physicians, family practitioners, advanced practice nurses and other healthcare professionals receive comprehensive updates on relevant medical topics in a relaxed, collegial atmosphere. Topics have included hypertension guidelines, heart failure, gastroenterology updates, opioid epidemic, cancer screening and prevention, immunization updates, and diabetes management.

*This five-day conference is jointly provided by Thomas Jefferson University and the University of Delaware with promotional assistance provided by the Medical Society of Delaware. Thomas Jefferson University is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare workers.*

**SCHEDULE:** Monday–Friday, June 21–25, 2021, 7 a.m.–12:30 p.m.

**LOCATION:** Rehoboth Beach Convention Center, Rehoboth Beach, Del.

**PRICE:** Registration includes course materials on a flash drive, online certificates of attendance and daily continental breakfast. Participants assume responsibility for lodging and all other meals. Physicians and faculty: \$795; retired physicians: \$755; previous participant bringing a first-time participant: \$695; nurses (professional, practitioner, case manager) and physician assistants: \$695; residents: \$520.

[pcs.udel.edu/esms](http://pcs.udel.edu/esms)

## CONFERENCE

## 52nd Medical Aspects of Sports Seminar

**Successful prevention, evaluation and rehabilitation of sports injuries**

This one-day sports medicine conference covers topics related to the evaluation and rehabilitation of sports-related injuries to the upper and lower extremities. This program is recommended for physical therapists, team and family physicians, athletic trainers, coaches, fitness club personnel, and students or school personnel involved in physical education, recreation and physical fitness programs. Presenters include faculty and athletic training experts from the University of Delaware as well as expert practitioners from the region.

*Cosponsored by the University of Delaware Intercollegiate Athletics Program and Department of Kinesiology and Applied Physiology.*

**SCHEDULE:** Saturday, February 27, 2021, 7 a.m.–4:15 p.m.

**LOCATION:** University of Delaware Audion, The Tower at STAR

**PRICE:** \$215; student rate and two or more group discount available. Event registration includes all program materials, refreshments and lunch.

[pcs.udel.edu/sports](http://pcs.udel.edu/sports)

## CREDIT CERTIFICATE | HYBRID-ONLINE

## Molecular Diagnostics Certificate

Hybrid-online plus campus-based certificate program designed for medical laboratory scientists working in the clinical laboratory or in the fields of forensics, biotechnology and pharmaceuticals. See page 32.

NONCREDIT COURSE | ONLINE

## RN Refresher Online Course

**Update your nursing knowledge and skills to enhance your nursing practice and meet professional requirements**

Have you been out of active nursing practice? Do you wish to update your nursing knowledge and return to a clinical setting? Does your state board of nursing require a refresher course for licensure reactivation? The University of Delaware's RN Refresher Program is designed to help you expand your nursing options. UD's RN Refresher Program consists of:

- An online didactic component providing the latest updates in evidence-based nursing practice and patient care management through a self-study format
- A clinical component comprised of a preceptored adult medical-surgical clinical experience in an acute care facility (optional for nurses with active licenses)
- Learner support available via web, email, phone and fax

**SCHEDULE:** 15-week didactic component begins September 2, 2020. Clinical component immediately follows and must be completed by March 2, 2021. Application required. Please submit application early.

**PRICE:** \$1,150 program fee (early registration discount through July 20). Textbooks not included; additional fees related to clinical and exam proctoring may apply.

**Scholarships and potential discounts available, including: Early registration, Military, UD student or alum.**

[pcs.udel.edu/rn-refresher](https://pcs.udel.edu/rn-refresher)

CREDIT DEGREE | ONLINE

## RN to BSN Program

Online program for registered nurses wishing to earn a bachelor of science in nursing. See page 28.

## HEALTHCARE PROFESSIONAL DEVELOPMENT PROGRAMS SEE INCREASED ENROLLMENT



By Nora Zelluk

In the current coronavirus (COVID-19) pandemic environment, three online healthcare professional development programs offered through UD's Division of Professional and Continuing Studies have been experiencing increased interest and enrollment.

With telehealth solutions taking center stage during the pandemic, UD's **Advanced Telehealth Coordinator Online Certificate** program is currently in session with more than double the usual enrollment, with some registrants having requested early course access to accelerate their learning.

Carolyn Morris, director of telehealth planning and development for Delaware Health and Social Services (DHSS), is the program director and lead instructor for UD's program and reports firsthand on the need for increased telehealth training and implementation. "From primary and specialty care to behavioral health, physical therapists, speech language pathologists, occupational therapists, every type of practice I can think of is in the process of trying to launch telehealth use cases to provide care for their clients and patients," said Morris.

The **RN Refresher Online** program is experiencing a similar surge, with more than double its usual inquiries so far this year and near-record enrollments for the current online offering. "We're hearing from RNs who tell us they're responding to events in their home states and communities, and reporting that their area hospitals are looking for nurses who have previous clinical experience and want to come back to clinical practice," said program director Kate Salvato. "Several of our participants specifically commented that the pandemic situation rekindled their desire to return to active nursing practice."

For the long-running **Clinical Trials Management Online Certificate** program, normally offered twice a year, a third cohort has been added this year for the first time ever. "Clinical research is a field for individuals who have a passion for leaving their footprint in research as well as seeing the impact their efforts make to humankind," said Michele Welch, program director and lead faculty for the program.



"And as we discussed in one of our recent class threads," added Welch, "course participants are not only learning the theory of clinical development in this program, but we are also living it, with real-time case studies provided in our daily current events."

# A VARIETY OF VIEWPOINTS FOR DIVERSE DISCUSSIONS

## Tom Nesterak

### Project Management Certificate

“UD’s Project Management Certificate program was a perfect fit for what I needed at the time for a couple of reasons. One, it validated what I already knew about project management; two, it added some professional growth to areas I needed to develop. The instructor was incredible, respected that we were working professionals, and gave us plenty of time to complete our projects. He was extremely responsive and always replied to emails.

One of my many takeaways was to apply lessons learned during a project and not put off until its completion a review of what could have been done differently. I have been implementing this practice in my position as a senior project manager for First Republic Bank.

I appreciated the wide range of occupations represented in the class and benefited from the interactions. It was the most eclectic collection of students I’ve ever seen, which was great because we had a lot of diversity in terms of goals, work experience and professional backgrounds. Many viewpoints were brought to the table, and we had some outstanding discussions.”

*Tom Nesterak is a senior project manager for First Republic Bank who completed UD’s Project Management Certificate program.*





# PROGRAMS AT A GLANCE

SUBJECT	PROGRAM	DATES/TIME	LOCATION	PRICE	DELIVERY METHOD	FORMAT	PG. NO.
---------	---------	------------	----------	-------	-----------------	--------	---------

BUSINESS & IT	<b>Analytics: Optimizing Big Data</b>	Mon, Sept. 14–December 16, 6–9:15 p.m.	Wilmington	\$2,895	In-classroom	Certificate	3
	<b>Business Analysis</b>	Sept. 15–16, Oct. 13–14, Nov. 17–18, Dec. 8–9 8:30 a.m.–4:30 p.m.	Newark	\$995/module or \$3,380/certificate bundle	In-classroom	Certificate	3
	<b>Business Essentials</b>		Newark/Online		Hybrid-online	Certificate	29
	<b>Coding Bootcamps-.NET/C# or Java</b>	Classes start monthly	Online	\$10,000 total, or \$2,000–\$3,000/badge	Online	Badge/Certificate	4
	<b>Design Thinking Workshop</b>	Oct. 20–21, 8:30 a.m.–4:30 p.m.	Newark	\$1,495	In-classroom	Course	4
	<b>Fundamentals of Social Media Marketing</b>	Sept. 14–Nov. 8	Online	\$995	Online	Certificate	8
	<b>Microsoft® Excel Essentials</b>	Tues., Sept. 8–29, 6–9 p.m.	Newark	\$475	In-classroom	Course	4
	<b>Microsoft® Excel Advanced Concepts</b>	Tues., Oct. 6–27, 6–9 p.m.	Newark	\$475	In-classroom	Course	5
	<b>Microsoft® Excel Advanced Reporting and Analytics</b>	Wed, Nov. 4–Dec. 2, 6–9:15 p.m.	Newark	\$475	In-classroom	Course	5
	<b>Master of Accounting Practice (MAP)</b>		Online		Online	Degree	29
	<b>Master of Arts in Strategic Communication (M.A.)</b>		Online		Online	Degree	29
	<b>Master of Business Administration (MBA)</b>		Online		Online	Degree	29
	<b>Master of Public Administration (MPA)</b>		Online		Online	Degree	32
	<b>Master of Science in Applied Statistics (M.S.)</b>		Online		Online	Degree	29
	<b>Master of Science in International Business (M.S.)</b>		Online		Online	Degree	29
	<b>Introduction to Nonprofit Management</b>	Tues, Sept. 8–Dec. 15, 5:30–8:30 p.m.	Wilmington	\$1,500	In-classroom	Certificate	5
	<b>IT Project Management Certificate</b>	Tues., Oct. 6–Dec. 8	Newark	\$2,795	In-classroom	Certificate	7
	<b>Nonprofit Leadership Certificate</b>	Thurs., Feb. 11–May 27, 8:30 a.m.–4:30 p.m.	Wilmington	\$2,495	In-classroom	Course	5
	<b>Project Management</b>	Mon., Sept. 14–Nov. 16, 6–9:30 p.m., Wed., Oct. 7–Dec. 9	Online Wilmington	\$2,595 \$2,595	Online In-classroom	Certificate Certificate	7 7
	<b>Sales Operations Science Certificate</b>	Tues., Oct. 6–Dec. 18, 7–9 p.m.	Newark	\$1,995	Online	Certificate	7
	<b>Self-Paced Programs and Certificates</b>	Classes start monthly	Online	Various	Online	Course/Certificate	8
	<b>Social Media Mktg. for Business: Advanced</b>	Aug. 24–Dec. 6	Online	\$2,995	Online	Certificate	8
	<b>Socially Responsible and Sustainable Business</b>	Four virtual/online classes	Online		Online	Course	32
	<b>Socially Responsible &amp; Sustainable Apparel Business</b>		Online		Online	Certificate	29
DRONE TRAINING	<b>Drone: Ground School &amp; FAA Part 107 Test Prep</b>	Sat. and Sun., Sept. 19–20, 8:30 a.m.–5 p.m.	Newark	\$395	In-classroom	Course	9
	<b>Drone: Foundations of Flight</b>	Sat. and Sun., Oct. 17–18, 8:30 a.m.–5 p.m.	Newark	\$995	In-classroom	Course	9
EDUCATION	<b>Delaware's Inclusion Conference</b>	Details coming soon, see page 11.					11
	<b>M.A. in Economics &amp; Entrepreneurship for Educators</b>		Hybrid-online			Degree	29
	<b>Master of Education in Educational Technology (M.Ed.)</b>		Online			Degree	29
	<b>Master of Education in Exceptional Children and Youth (M.Ed.)</b>		Online			Degree	30
	<b>Master of Education in Literacy (M.Ed.)</b>		Online			Degree	30
	<b>Master of Education in Teacher Leadership</b>		Online			Degree	30
	<b>Montessori Teacher Residency</b>		Hybrid and In-Classroom			Certificate	11
	<b>Alternative Routes to Teacher Certification (ARTC)</b>		In-class			Course	11
	<b>Praxis: Core Math or Reading &amp; Writing</b>	Visit pcsudel.edu/praxis-test-prep for details.					11
			Online			Course	11



ENGINEERING & SCIENCE	Composites Manufacturing/Engineering Certificate				Online	Certificate	31	
	Graduate Certificate in Applied Bioinformatics				Online	Certificate	30	
	Graduate Certificate in Biomedical Informatics and Data Science				Online	Certificate	30	
	Graduate Certificate in Cybersecurity				Online	Certificate	31	
	M.S. in Cybersecurity				Online	Degree	31	
	M.S. in Electrical and Computer Engineering				Online	Degree	31	
	M.S. in Mechanical Engineering (MSME)				Online	Degree	31	
	Minerals, Materials and Society				Online	Certificate	31	
	Progressive Composite Damage Modeling in LS-DYNA				Online	Certificate	32	
	Railroad Engineering Grad. Certificate				Online	Certificate	31	
FOOD & HOSPITALITY	HR Competencies for Restaurant Managers				Online	\$995	Certificate	13
	Advanced Telehealth Coordinator Online				Online	\$1,495	Certificate	14
HEALTHCARE & HEALTH SCIENCES	Clinical Trials Management				Online	\$2,125	Certificate	14
	Continuing Dental Education Symposium				Rehoboth Beach	See page 15.	Conference	15
	Dietetic Internship				Online		Certificate	32
	Doctor of Nursing Practice				Online		Degree	32
	Eastern Shore Medical Symposium				Rehoboth Beach	See page 15.	Conference	15
	Medical Aspects of Sports				Newark	\$215	Conference	15
	Molecular Diagnostics				Hybrid-online		Certificate	32
	RN Refresher				Online	See page 16.	Course	16
	RN to BSN				Online		Degree	28
	LAW	Paralegal Certificate				Wilmington	\$3,800	Certificate
Advanced Paralegal: Advanced Legal Research and Writing				Wilmington	\$595	Course	20	
LSAT Prep				Newark	\$995	Course	27	
SAFETY	Certified Occupational Safety Specialist (COSS)				Newark	\$2,649	Course	24
	Certificate for Occupational Safety Managers (COSM)				Newark	\$2,749	Course	24
TEST PREP	ACT Prep				Online	\$475	Course	27
	GRE Prep				Online	\$895	Course	27
	GMAT Prep				Online	\$895	Course	27
	LSAT Prep				Online	\$995	Course	27
	SAT Prep				Online	\$475	Course	27

# Law programs

## Free Live-Online Information Session

Join us for the following live-online information session to learn more about fall 2020 professional development programs, speak with instructors and ask questions about the programs you're interested in.

**Thursday, August 20  
7–8 p.m.**

**Paralegal Institute  
(Paralegal Certificate,  
Advanced Paralegal Seminar Series)**

**Meeting information  
sent upon registration**  
[pcs.udel.edu/info-session](https://pcs.udel.edu/info-session)

## Students benefit from Paralegal Association memberships



UD's Division of Professional and Continuing Studies is a sponsor of the Delaware Paralegal Association (DPA) and the Delaware County Paralegal Association (DCPA).

We encourage participants in UD's Paralegal Certificate program to join these associations at the student membership level. For more information, visit [www.deparalegals.org](http://www.deparalegals.org) (DPA) and [www.delcoparalegal.org](http://www.delcoparalegal.org) (DCPA).

### PARALEGAL ASSOCIATIONS DISCOUNT

Members of the Delaware Paralegal Association and the Delaware County Paralegal Association receive a 15% discount when enrolling in our paralegal programs. Only one discount may be applied per enrollment.

[pcs.udel.edu/paralegal-institute](https://pcs.udel.edu/paralegal-institute)

## NONCREDIT CERTIFICATE | IN-CLASS

### Paralegal Certificate

**Create a new career path or advance in your current position as a paralegal or legal assistant**

Paralegals fill a vital role in the legal community, and for more than 40 years the University of Delaware's Paralegal Certificate program has been preparing legal assistants and paralegals in the region. Taught by a faculty of experienced attorneys, the program covers the American system of law, court systems and procedures, legal research and writing, and the major branches of law.

Professional opportunities are many and varied:

- Private law firms will continue to be the largest employers of paralegals
- Growth is expected in corporate legal departments, insurance companies, real estate and title insurance firms, and banks
- Opportunities are projected to expand in the public sector

#### WHO SHOULD PARTICIPATE?

- Anyone wishing to change careers
- Anyone wishing to enter the field of law and legal services
- Anyone with legal experience wishing to earn a valuable credential
- Anyone considering law school

**SCHEDULE:** August 31, 2020–July 21, 2021.  
Mondays/Wednesdays, 6–9 p.m.

**LOCATION:** Arsht Hall, 2700 Pennsylvania Ave., Wilmington, Del.

**PRICE:** \$3,800, textbooks additional.  
*Payment plan, scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).*

23.4 Continuing Education Units

[pcs.udel.edu/paralegal-institute](https://pcs.udel.edu/paralegal-institute)

## ADVANCED PARALEGAL SEMINAR SERIES

### Keep up with trending legal topics

Enhance your career through advanced education in various areas of the law. By studying targeted topics, you can gain the specialized knowledge that will increase your scope of practice and competencies and make you more effective in working with attorneys who focus on particular legal fields and specialties. These short-term courses are designed to accommodate busy professionals.

#### WHO SHOULD PARTICIPATE?

- Anyone working in a law firm
- Anyone working toward a legal profession
- Anyone with legal experience wishing to enhance their knowledge in the legal field

## NONCREDIT COURSE | IN-CLASS

### New! Advanced Legal Research and Writing

Whether professionals regularly conduct legal research or have not done so in a long time, this hands-on course helps develop the essential skills needed to become more effective in the process by addressing the latest advancements. Topics include the use and identification of primary and secondary sources, including case law and statutory law, and the use of authority validation to expand research and data analytics to target the most beneficial results.

**SCHEDULE:** Wednesdays, September 23–October 21, 2020, 6–9 p.m.

**LOCATION:** Arsht Hall, 2700 Pennsylvania Ave., Wilmington, Del.

**PRICE:** \$595. *Scholarships and various discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).*

[pcs.udel.edu/paralegal-institute](https://pcs.udel.edu/paralegal-institute)

# UD PCS PARALEGAL INSTITUTE SERVES FUTURE AND CURRENT LEGAL PROFESSIONALS

By Adam S. Kamras

## Seeking program alumni

The mutual support exhibited by University of Delaware Paralegal Certificate students throughout their studies has resulted in the development of countless friendships over the last 42 years. While many of the graduates become colleagues in the region's legal community, and cross paths on a regular basis, too many others lose touch over the years.

UD's Division of Professional and Continuing Studies (UD PCS) is looking to reunite former paralegal classmates, and foster new personal and professional connections, by expanding its association with the program's alumni.

"At some point in the near future, we will provide an opportunity for our paralegal graduates to gather together in a social setting by hosting an alumni celebration," said Patricia Allen, UD PCS program coordinator. "In the meantime, we are increasing our alumni contact list, so we can keep them informed of what is happening with the highly reputable program they helped build and ensure they are made aware of any professional development opportunities we can offer."

## Advanced series responds to need

By having strong ties with its paralegal alumni, UD PCS is able to continue to enrich its programming. In response to numerous former Paralegal Certificate students requesting further education on issues they are facing on a regular basis, the Advanced Paralegal Seminar Series was introduced in 2019 to complement the certificate program and allow for the establishment of the UD PCS Paralegal Institute, which serves future and current legal professionals.



Providing advanced study in various areas of the law to enhance the career of anyone employed by a law firm, interested in a legal profession or possessing legal experience and wishing to increase their knowledge in the legal field, the Advanced Paralegal Seminar Series concentrates on targeted trending legal



CINDY DOLAN

topics. This enables students to gain specialized knowledge to increase their scope of practice and competencies, as well as make them more effective in working with attorneys who may focus on particular legal fields and specialties.

Designed to accommodate busy professionals, these short-term, evening courses have included Intellectual Property Law, Family Law, E-filing and Real Estate Law. The series resumes in September with Advanced Legal Research and Writing, while the 2021 schedule features Elder Law and Wills, E-filing and E-discovery.

## Training supports rising profession

The next Paralegal Certificate class begins in August. The program covers the American system of law, court systems and procedures, and legal research and writing, and introduces the major branches of law.

According to the U.S. Bureau of Labor Statistics, employment of paralegals and legal assistants is projected to grow 12% from 2018 to 2028, much faster than the average for all occupations. This equates to an increase of approximately 39,000 positions in the field. Formally trained paralegals with strong computer and database management skills should have the best job prospects.

"We encourage all Paralegal Certificate alumni to reach out [to [patallen@udel.edu](mailto:patallen@udel.edu)] and let us know what they are up to today," said Allen. "We also welcome suggestions for future Advanced Paralegal Seminar Series topics from anyone in the legal community."

# Pre-college programs

## UD CREDIT COURSES FOR HIGH SCHOOL STUDENTS

### Individual Enrollment in UD Credit Courses

High school students interested in taking credit courses through Continuing Education are required to schedule an appointment to meet with an ACCESS Center academic advisor (see page 1). ACCESS advisors are available to answer questions, offer guidance and assistance with course selection and registration, and provide forms that need to be completed.

Advisors are available to support students throughout the process.

#### INTERESTED IN GETTING STARTED?

Contact the ACCESS Center to make an appointment with an advisor prior to enrolling.

**302-831-8843 • [pcs.udel.edu/pre-college](https://pcs.udel.edu/pre-college)**

### UD Dual Enrollment: Earn College Credits While Still in High School

Qualified Delaware high school students can concurrently earn University of Delaware and high school credits through established partnerships with local high schools. Academically qualified juniors and seniors may register for designated courses through their participating Delaware high schools and:

- Earn college credits and high school credits at the same time
- Gain experience taking college-level courses
- Take courses not available at their schools
- Enhance their college applications

Online courses are one of the options for students in UD's dual enrollment partnership program. Students may enroll in one or

more of the designated online courses offered and taught by UD faculty. Although course offerings may change, typical offerings include:

#### **ANTH 101: Introduction to Social and Cultural Anthropology**

Major ideas and areas of study in social and cultural anthropology. Use of ethnographic data and film to illustrate the anthropologist's view of societies in their sociocultural and ecological dimensions. (3 credits)

#### **BUAD 100: Introduction to Business**

Survey of basic business concepts designed for non-business majors. Topics covered include understanding the business environment, management and organizational behavior, marketing, and operations management, with coverage of international business and business ethics. (3 credits)

#### **HDFS 202: Diversity and Families**

Examination of diverse families in the United States with a focus on issues of race, ethnicity, social class and gender. Emphasis is on the accelerating effects of globalization and social change. (3 credits)

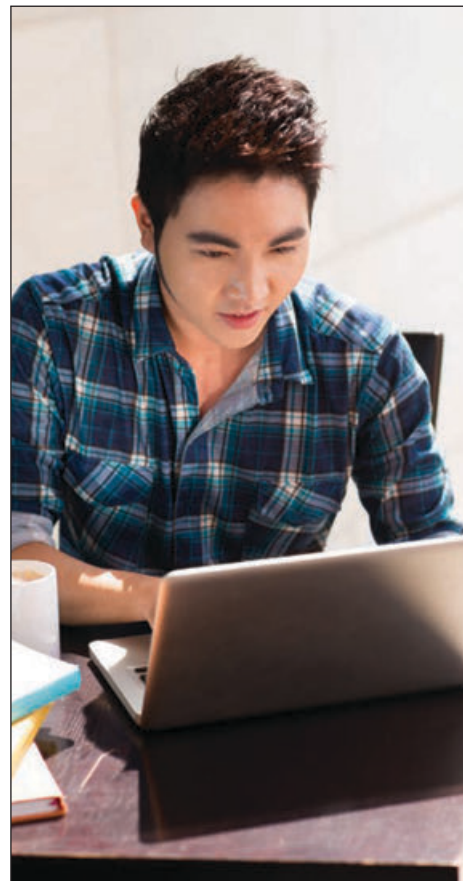
#### **NTDT 200: Nutrition Concepts**

Functions and sources of nutrients, dietary adequacy, energy balance and metabolism with emphasis on health promotion. Includes weight control, evaluation of popular diets, vegetarianism, eating disorders, alcohol, and other current issues and concerns in nutrition. (3 credits)

#### **HOW TO GET STARTED**

Contact your school's guidance office to find out if your school participates in UD Dual Enrollment.

**[pcs.udel.edu/high-school-dual-enrollment](https://pcs.udel.edu/high-school-dual-enrollment)**





## READING AND STUDY SKILLS PROGRAMS

UD PCS, in partnership with the Institute of Reading Development, offers reading skills programs for learners of all ages.

Fall online follow-ups are available to complement our summer reading programs for students in grade school and middle school.

UD PCS also offers various reading programs for adults, high school students and college students. Speed reading and study skills programs enable participants to double their reading speed, improve reading comprehension and learn new ways of reading and studying textbooks.

**For details, visit [pcs.udel.edu/reading](https://pcs.udel.edu/reading) or call the Institute of Reading Development (IRD) at 1-800-903-0162.**

## Summer Reading Skills Programs

Summer Reading Skills programs address the specific learning needs of readers at all ages, with instruction provided by experienced teachers. Between weekly lessons, students continue to build skills through interactive online instruction tailored to their reading level.

### 4-year-olds through entering third graders

Fun programs focus on phonics, word-attack skills, building comprehension, developing a love of books and reading, and becoming confident enthusiastic readers.

### Entering fourth and fifth graders

Programs focus on students becoming skilled, enthusiastic readers with strong comprehension, including independent reading of enjoyable children's novels. Increased focus on textbook and nonfiction reading.

### Entering 6th through 11th graders

Programs focus on building stronger readers and better students, with emphasis on increased reading speed, improved comprehension, and how to effectively read and study textbooks.

**LOCATIONS:** Live-online

**SCHEDULE:** Summer programs meet one day a week for five weeks. **Visit the website for available sessions and sign up for notifications and a discount.**

## Speed Reading and Study Skills Programs

Increase your effectiveness as a reader and a student in this program designed for entering high school seniors, college students and adults. You will learn several speed reading techniques as well as comprehension, concentration and retention strategies. You will double your speed in materials ranging from novels to nonfiction and learn how to adapt your approach based upon the type of material you're reading and your purpose as a reader. In addition, you will be able to prepare for tests efficiently without extensive rereading.

You will cut the time you spend on required reading in half, and the reading you do for pleasure will be faster and more enjoyable. Program participants receive free lifetime repeat privileges at any of the 700 universities, colleges and other locations that offer the program nationwide.

**LOCATION:** Live-online

**SCHEDULE:** Summer program and two-weekend fall programs are available; please call the Institute of Reading Development (IRD) for dates: 1-800-903-0162.



## COLLEGE TEST PREP: EARN HIGHER ACT AND SAT SCORES

Standardized tests are crucial components of the college application process. The University of Delaware partners with Educational Testing Consultants (ETC), a leader in higher education test preparation, to offer intensive programs that provide students with the tools they need to excel. A limited number of need-based scholarships are available for students enrolling in test prep programs.

Courses are offered live-online. See page 27 for details.

[pcs.udel.edu/sat-test-prep](https://pcs.udel.edu/sat-test-prep)

## ACT Live-Online Test Prep

This test prep course is an intensive program that provides students with the tools they need to excel on the ACT exam. See page 27.

[pcs.udel.edu/sat-test-prep](https://pcs.udel.edu/sat-test-prep)

## SAT Test Prep

This test prep course is an intensive program that provides students with the tools they need to excel on the SAT exam. See page 27.

[pcs.udel.edu/sat-test-prep](https://pcs.udel.edu/sat-test-prep)

# Safety programs

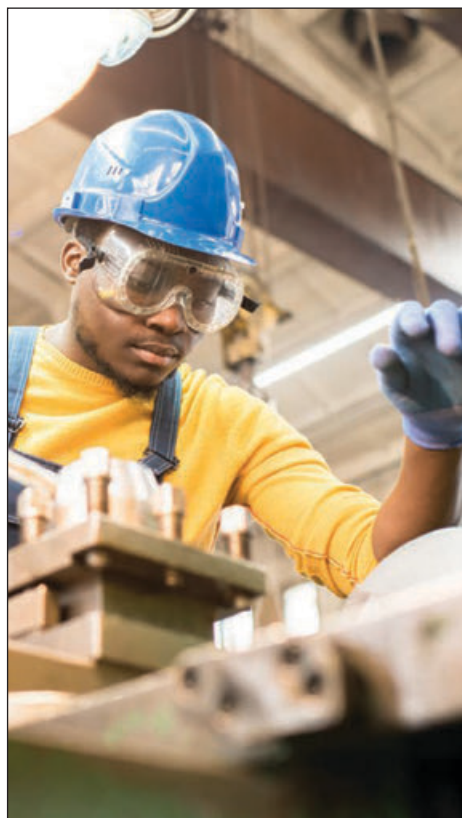
## Free Live-Online Information Session

Join us for the following live-online information session to learn more about fall 2020 professional development programs, speak with instructors and ask questions about the programs you're interested in.

**Thursday, August 20**  
**7–8 p.m.**

**Occupational Safety**  
**(COSS, COSM)**

**Meeting information**  
**sent upon registration**  
[pcs.udel.edu/info-session](https://pcs.udel.edu/info-session)



## PROFESSIONAL SAFETY TRAINING INSTITUTE



The University of Delaware's Division of Professional and Continuing Studies partners with the Delaware Valley Safety Council to offer training for entry-level to experienced safety professionals as well as organizational leaders focused on promoting workplace safety culture and performance excellence. All programs are taught by Authorized OSHA Outreach Trainers.

NONCREDIT COURSE | IN-CLASS

### Certified Occupational Safety Specialist (COSS)

**Become a trained safety practitioner**

Developed by expert safety practitioners focused on the core competencies of occupational safety and health, the Certified Occupational Safety Specialist (COSS) designation is recognized nationwide for its rigorous standards and outstanding curriculum. COSS graduates are able to teach their employees and colleagues how to work safely and eliminate the risk of fatalities and near misses—and avoid safety violations and OSHA citations.



Participants who successfully complete the program earn the nationally recognized Certified Occupational Safety Specialist (COSS) designation, which is endorsed by the American Association of Safety Councils and the American Council for Construction Education.

#### WHO SHOULD PARTICIPATE?

This course is designed for entry-level safety professionals as well as experienced safety practitioners wishing to stay current in the field. Safety training is applicable to a wide range of industries, including construction, manufacturing, transportation, energy and utilities, public safety and security, healthcare, food, government and human resources.

**PREREQUISITE:** High school diploma or equivalent.

**SCHEDULE:** Monday–Friday, October 19–23, 2020, 8 a.m.–5 p.m.

**LOCATION:** 501 S. College Ave., Newark, Del.

**PRICE:** \$2,649, course materials included.  
**UD alumni, military and GBCA discount available.\***

[pcs.udel.edu/coss](https://pcs.udel.edu/coss)

NONCREDIT COURSE | IN-CLASS

### Certificate for Occupational Safety Managers (COSM)

**Advanced safety training for occupational safety professionals**

This advanced, executive level safety program focuses on safety processes and procedures and building the safety culture to lead your company toward excellence.

Safety professionals and managers who have seen the difference training can make can take the next professional step in their careers with the COSM designation.

After completing 40 hours of training and submitting all assignments, participants will receive the COSM credential.

#### WHO SHOULD PARTICIPATE?

This program benefits all organizational safety leaders involved in processes and decision-making as well as other managers and professionals charged with workplace health and safety for their organizations.

**PREREQUISITE:** Minimum two years of safety, health or environmental work experience.

Topics covered:

- Essentials of safety management
- Safety competencies and leadership
- Management roles and responsibilities
- Strategic planning and evaluating



- Managing risk (hazards and analysis), safety finances and workers' compensation
- Communicating the safety message
- Presenting to high-level executives
- Injury management, incentives and discipline
- Claims and investigation in post-accident management

**SCHEDULE:** Monday–Friday, September 21–25, 2020, 8 a.m.–5 p.m.

**LOCATION:** 501 S. College Ave., Newark, Del.

**PRICE:** \$2,749, course materials included.

**UD alumni, military and GBCA discount available.\***

[pcs.udel.edu/cosm](http://pcs.udel.edu/cosm)

\*Contact the Delaware Valley Safety Council at 856-558-8797 or [detraining@dvsconline.org](mailto:detraining@dvsconline.org) to apply any discount. Only one discount may be applied per enrollment. General Building Contractors Association, Inc. (GBCA) members receive a discount when enrolling in COSS or COSM.

#### CUSTOMIZED TRAINING OPPORTUNITY

## Safe Supervisor Training

### Become a safety leader in your workplace

Achieving an injury-free workplace takes more than a catchy phrase or one individual championing the cause. Frontline supervisors play a pivotal role in shaping the safety mindset in the workforce.

Safe Supervisor Training is a three-day course designed to enhance a supervisor's understanding of the bigger picture in creating a safer work environment. By learning how to promote safety on a job site, graduates have the knowledge to help reduce fatalities, near misses and OSHA citations.

Topics covered:

- How exposures to hazards can lead to accidents
- Performance of a worksite analysis
- Recognizing hazards
- Determining potential effects of hazards
- Determining how OSHA code applies to identified hazards
- Controlling identified hazards
- Communicating hazard-related information
- Initiating an accident investigation
- Understanding some of the psychology that drives employees' "unsafe" behaviors

This course can be offered on-site or on the UD campus as a customized training program. Please contact Lynn Fishlock at 302-831-8837 or [lynnaf@udel.edu](mailto:lynnaf@udel.edu) to discuss group or organizational enrollments.

[pcs.udel.edu/safe-supervisor](http://pcs.udel.edu/safe-supervisor)

## INDUSTRY UPDATE: SAFETY VIOLATIONS

### Annual OSHA report highlights perennial safety issues

Every year, the U.S. Occupational Safety and Health Administration (OSHA) releases a list of top safety violations. The report consistently shows thousands of citations for infractions that could potentially affect job safety. Last year, the top 10 most frequently cited violations were:

1. **Fall Protection: General (6,010 violations)**
2. **Hazard Communication (3,671)**
3. **Scaffolding (2,813)**
4. **Lockout/Tagout (2,606)**
5. **Respiratory Protection (2,450)**
6. **Ladders (2,345)**
7. **Powered Industrial Trucks (2,093)**
8. **Fall Protection: Training (1,773)**
9. **Machine Guarding (1,743)**
10. **Eye and Face Protection (1,411)**

Understanding OSHA requirements is a primary focus of UD's occupational safety training courses, which emphasize recognizing hazards and effectively managing workplace safety programs.

Offered in partnership with the Delaware Valley Safety Council (DVSC), all courses are taught by authorized OSHA Outreach Trainers. For more information, visit [pcs.udel.edu/occupational-safety](http://pcs.udel.edu/occupational-safety).





# Test prep programs

## ACT OR SAT?

The University of Delaware's Division of Professional and Continuing Studies (UD PCS) offers ACT and SAT exam prep classes in live-online formats. Both exams contain math and reading sections as well as sections testing grammar and sentence construction. But there are significant differences in the ways the exams test these subjects. Moreover, the ACT contains a section with no counterpart on the SAT—the science section.

### ACT has more geometry and trigonometry

The math tested by the ACT is slightly more advanced than the SAT and contains more geometry and trigonometry. The SAT questions are more likely to involve clever problem-solving techniques that stress critical thinking as much as the math content itself. While the ACT math section consists entirely of multiple-choice problems, the SAT contains a number of questions that require a number to be filled in.

### Optional essays on both

Both exams contain an optional essay and multiple-choice questions that focus on a similar range of grammar and construction skills, such as reading comprehension. The SAT contains additional sentence completion questions.

### ACT science favors verbal skills

The science section of the ACT consists primarily of short passages accompanied by charts and graphs. Despite the test's name, the skills required of the science section are largely verbal; being able to extract information quickly from passages and charts is essential. Thus, students whose verbal skills are strong and are not intimidated by charts and graphs tend to perform well on this section.

## TEST PREP FREE STRATEGY SESSIONS

### GRE Strategy Workshop (LIVE-ONLINE)

**Tuesday, September 1**  
1–2 p.m.

**Wednesday, September 2**  
9–10 p.m.

**Tuesday, October 13**  
9–10 p.m.

**Wednesday, October 28**  
9–10 p.m.

### GMAT Strategy Workshop (LIVE-ONLINE)

**Wednesday, September 16**  
and  
**Wednesday, October 7**  
9–10 p.m.

### LSAT Strategy Workshop (LIVE-ONLINE)

**Thursday, September 10**  
and  
**Tuesday, October 6**  
9–10 p.m.

NONCREDIT COURSE | LIVE-ONLINE

## College Test Preparation Courses

**Live-online test preparation and review tools to help you perform at your peak**

Standardized tests are a crucial component of the college and graduate school application process, and success on these exams can be a big part of achieving your goals. These test prep courses are intensive programs that provide students with the tools they need to excel on their exams. Students are provided with an in-depth review of the exam materials, insight into strategies for succeeding on each exam, and a comprehensive study plan. An official study guide, a customized workbook and online resources are provided with each course. This program is offered in partnership with Educational Testing Consultants (ETC), a leader in higher education test preparation.

### WHO SHOULD PARTICIPATE?

- Rising high school juniors taking the SAT or ACT for college admissions
- Undergraduates preparing to take the GRE, GMAT or LSAT for admission to graduate school or law school
- Future teachers taking the Praxis for certification or admission to colleges/schools of education
- Anyone wishing to continue their education at the college/university or graduate level

**PRICE:** See website for current pricing.  
**Scholarships and potential discounts available, including Military, UD dependents, Del. residents.**

**LOCATION:** Courses offered live-online.  
See website for details.

[pcs.udel.edu/test-prep](https://pcs.udel.edu/test-prep)

**FINANCIAL AID AVAILABLE**

Need-based financial aid is available for students enrolling in the ACT, SAT, GMAT, GRE or LSAT test prep programs. Applications are accepted on a rolling basis, with preference given to submissions received at least three weeks prior to the applicable course start date.

[pcs.udel.edu/test-prep](https://pcs.udel.edu/test-prep)

**ACT**

(Multiple live-online offerings)

[pcs.udel.edu/sat-test-prep](https://pcs.udel.edu/sat-test-prep)

**GRE**

(Multiple live-online offerings)

[pcs.udel.edu/gre-test-prep](https://pcs.udel.edu/gre-test-prep)

**GMAT**

(Multiple live-online offerings)

[pcs.udel.edu/gre-test-prep](https://pcs.udel.edu/gre-test-prep)

**LSAT**

(Multiple live-online offerings)

[pcs.udel.edu/lsat-test-prep](https://pcs.udel.edu/lsat-test-prep)

**SAT**

(Multiple live-online offerings)

[pcs.udel.edu/sat-test-prep](https://pcs.udel.edu/sat-test-prep)

**Various discounts or scholarships may be available for all test prep programs: Military, UD dependents, DE residents.**

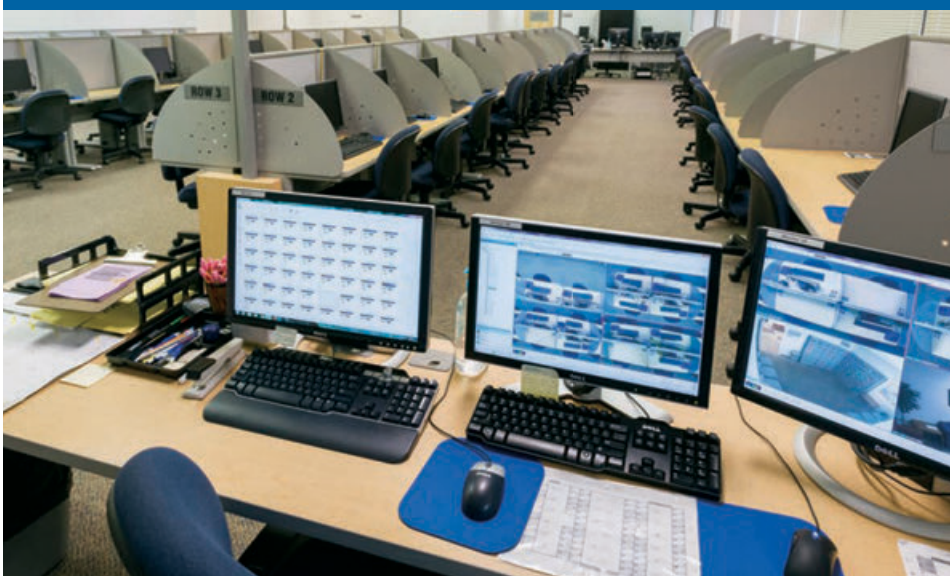
**OTHER EXAM PREP OFFERINGS****Praxis Live-Online**

See page 11 for more information.

**ON-CAMPUS GRE AND PRAXIS TESTS**

GRE and Praxis exams are offered in partnership with Educational Testing Service (ETS) at the Computer Based Testing Center, located on UD's main campus in Newark.

[pcs.udel.edu/cbtc-standardized-testing](https://pcs.udel.edu/cbtc-standardized-testing)

**UD ONLINE TESTING CENTER EARNS NATIONAL CERTIFICATION**

EVAN KRAPE

By Adam S. Kamras

**Over 10,000 annual exams in Newark**

The University of Delaware Online Testing Center in Newark was awarded Test Center Certification by the National College Testing Association (NCTA). The certification process was designed to assist test centers in improving their testing processes and their service delivery to examinees.

"The UD Online Testing Center annually administers over 10,000 exams at its Newark location," said Aviva Heyn, UD assistant director, digital learning. "The NCTA certification shows the testing center's adherence to professional standards for an optimal testing environment that upholds academic integrity. Much time and effort was put into the certification process."

Criteria for certification are based on the NCTA Professional Standards and Guidelines, which were developed to guide postsecondary test centers in the delivery of quality testing programs. The certification is valid for five years and can be renewed by demonstrating continued compliance to national standards.

**Not just online UD students**

"The services provided by the testing center have expanded over the last few years," said Tracy Branigan, program coordinator, UD Online Testing Center. "In addition to UD's online classes, we provide testing for local students taking online classes through other institutions as well as for several of our on-campus classes."

The National College Testing Association, a nonprofit organization dedicated to the



promotion of professionalism and high quality service in the administration of testing programs, offers certification to college and university test centers that demonstrate exemplary practices. NCTA membership numbers more than 2,200 testing professionals from 650 colleges and universities as well as 50 test companies and organizations offering test-related products and services.

For testing center hours, locations and procedures, visit [pcs.udel.edu/ud-online-exam-procedures](https://pcs.udel.edu/ud-online-exam-procedures).

# UD Online programs

## Study with flexibility

At the University of Delaware, we offer a learning environment designed to help you expand your skills and further your career. We do this through discovery-based learning, applied research and dynamic skill building. This proven academic approach extends to all of our online degree programs and non-degree courses.

When you choose to study with UD, you gain access to our expert faculty and our leading-edge curriculum, all with the flexibility that comes with online learning.

Online programs from the University of Delaware are ideal solutions for students and professionals who are seeking to advance critical skills with a leading research university while accommodating their busy schedules.

Explore all of these options at [online.udel.edu](https://online.udel.edu).

## University of Delaware—a top-ranked education

Take advantage of e-learning opportunities at a top-ranked, research-focused university with a wide array of programs, departments, schools and centers.

- U.S. News and World Report names UD No. 39 nationally among top public universities.
- Kiplinger's, Forbes and MONEY rank UD among "Best Value" schools.
- The Center for World University Rankings places UD in the top 1.3% of universities in the world.

Learn more: [www.udel.edu/about/facts-figures](https://www.udel.edu/about/facts-figures)



## CREDIT UNDERGRADUATE DEGREES AND CERTIFICATES

### Associate in Arts Online

The Associate in Arts Online is a liberal arts degree representing completion of approximately half of a UD bachelor of arts degree. Your previous college credit may be transferable into the program, and you may begin taking courses prior to formal admission to the degree. Consult with an ACCESS Center advisor to choose courses and customize your program. A UD degree is closer than you think!

**CONTACT:** [access-advise@udel.edu](mailto:access-advise@udel.edu)  
**302-831-8843**  
[pcs.udel.edu/associate-arts-online/](https://pcs.udel.edu/associate-arts-online/)

### Bachelor of Science in Nursing (RN-to-BSN)

The University of Delaware School of Nursing's RN-to-BSN program provides licensed registered nurses the opportunity to earn their BSN degree through online study. Building on basic nursing knowledge to enhance nursing practice in an increasingly complex society, the curriculum further develops students' scholarly writing skills, leadership skills, research knowledge and use of evidence-based practice to provide a growth experience for the actively practicing registered nurse. Providing year-round learning opportunities for degree completion, courses are offered in fall, winter, spring and summer.

**CONTACT:** [access-advise@udel.edu](mailto:access-advise@udel.edu)  
**302-831-8843**  
[sites.udel.edu/nursing/nursing-education](https://sites.udel.edu/nursing/nursing-education)



## Questions?

Please visit [online.udel.edu](https://online.udel.edu),  
 write to [continuing-ed@udel.edu](mailto:continuing-ed@udel.edu)  
 or call 302-831-7600.



## Certificate of Business Essentials

Through a combination of online and campus courses, this certificate offers students and working professionals in non-business fields the opportunity to earn a business-related certificate. The program is comprised of four targeted courses from UD's Lerner College of Business and Economics:

- Economic Issues and Policies
- Survey of Accounting
- Introduction to Business
- Fundamentals of Finance

**CONTACT:** [access-advise@udel.edu](mailto:access-advise@udel.edu)  
302-831-8843 • [pcs.udel.edu/essentials](http://pcs.udel.edu/essentials)

## CREDIT GRADUATE DEGREES AND CERTIFICATES

### BUSINESS

## Master of Accounting Practice

Within this AACSB accounting-accredited program, you'll study with renowned faculty to gain a solid understanding of accounting, the assurance function, tax regulations, business law and the business environment and graduate ready to sit for the CPA exam.

**CONTACT:** 844-237-1338  
[business.online.udel.edu/sp-map](http://business.online.udel.edu/sp-map)

## Master of Science in Applied Statistics

This program is designed for working professionals from a range of occupational and educational backgrounds. Students receive training in applied and theoretical statistics and graduate ready to excel in data careers.

**CONTACT:** 844-247-6251  
[onlinestats@udel.edu](mailto:onlinestats@udel.edu)  
[onlinestats.canr.udel.edu](http://onlinestats.canr.udel.edu)

## Master of Business Administration (MBA)

The Online MBA program allows participants to engage in thoughtful learning with outstanding faculty and students, maximizing real-world knowledge to equip them with the skills and knowledge needed to excel in today's global market. Graduates can add a powerful, AACSB-accredited MBA to their resume in as few as 16 months, with concentrations in business analytics, finance, healthcare management, international business and strategic leadership. Five start dates per year.

**CONTACT:** [mbaprogram@udel.edu](mailto:mbaprogram@udel.edu)  
844-237-1338 • [mbaonline.udel.edu](http://mbaonline.udel.edu)

## Graduate Certificate in Socially Responsible and Sustainable Apparel Business

Addresses labor and environmental problems in global supply chains for the apparel, textile and footwear industries. Coursework is grounded on principles of the United Nations (UN) Global Compact and provides the foundation needed to manage international production, design, product development, buying, promotion and sourcing in ways that are socially responsible and sustainable.

**CONTACT:** 302-831-6124  
[hcao@udel.edu](mailto:hcao@udel.edu)  
[fashion.udel.edu/graduate/graduate-certificate](http://fashion.udel.edu/graduate/graduate-certificate)

## Master of Science in International Business

This degree prepares professionals for leadership in international business, with emphasis on strategic, financial and managerial roles. Participants customize their program with coursework drawn from accounting, economics, finance, marketing, entrepreneurship and analytics.

**CONTACT:** 844-237-1338  
[business.online.udel.edu/msib](http://business.online.udel.edu/msib)

## Master of Arts in Strategic Communication (M.A.)

By evaluating past media campaigns and their results, conducting competitive research, and designing new campaigns based on insights from student analysis, this degree focuses on the tactics necessary to craft persuasive messaging. Graduates are prepared to advance in their current career or take on new roles in strategic communication, public relations, digital media or social media management. Students can pursue concentrations in either public relations or digital and social media as well as customize electives to design a program that best matches their career goals.

**CONTACT:** 844-237-1338  
[stratcomm.online.udel.edu](http://stratcomm.online.udel.edu)

### EDUCATION

## Master of Arts in Economics and Entrepreneurship for Educators (M.A.E.E.E.)

This combined hybrid online plus on-campus program focuses on economic, entrepreneurial and financial literacy and on preparing educators for teaching these subjects in elementary and secondary schools. The M.A.E.E.E. equips educators with a solid foundation in economic theory and a set of strategies for teaching economics, entrepreneurship and personal finance to inspire students to become effective participants in the economy, successful entrepreneurs, responsible consumers and wise investors.

**CONTACT:** [asarta@udel.edu](mailto:asarta@udel.edu)  
302-831-2559  
[lerner.udel.edu/programs/masters-programs/economics-and-entrepreneurship-for-educators-ma](http://lerner.udel.edu/programs/masters-programs/economics-and-entrepreneurship-for-educators-ma)

## Master of Education in Educational Technology (M.Ed.)

Based on the assumption that new media and the internet can have a positive effect on teaching and learning, this degree provides both a theoretical and a practical grounding in educational technology methods and techniques, emphasizing theories of teaching and learning that support these methods. To demonstrate mastery of the program's goals, all candidates complete the same series of seven program assessments. Depending on the student's career path, these assessments are evaluated by rubrics developed according to standards of the International Society for Technology in Education (ISTE) or the Association for Educational Communications and Technology (AECT).

**CONTACT: 302-831-2396**  
[education.udel.edu/masters/edtech](mailto:education.udel.edu/masters/edtech)

## Master of Education in Exceptional Children and Youth (M.Ed.)

With perennial shortages in the field of special education, this program is aimed at developing teachers and education professionals committed to serving children and youth with disabilities. Concentrations are available in K-12 Special Education and Autism/Severe Disabilities. This program is appropriate for teachers with a certificate in either general or special education who wish to develop advanced knowledge and skills as well as other education professionals wishing to pursue an advanced degree in the disability field. A five-course program for Delaware teachers meets requirements for Delaware certification as a Teacher of Exceptional Children Grades K-12 or Teacher of Students with Autism or Severe Intellectual Disabilities.

**CONTACT: kritchey@udel.edu**  
[education.udel.edu/masters/exc-online](mailto:education.udel.edu/masters/exc-online)

## Master of Education in Literacy (M.Ed.)

This program is for K-12 teachers wishing to prepare for certification as reading or literacy specialists. Current teachers and educators will study the theoretical and evidenced foundations of reading and writing development, learn to plan culturally and linguistically relevant literacy instruction for all students, and support students and teachers in the use of digital literacy tools. Career opportunities include reading and literacy specialist positions in school districts as well as English language arts (ELA) positions in K-12 schools.

**CONTACT: dcoker@udel.edu**  
[education.udel.edu/masters/literacy](mailto:education.udel.edu/masters/literacy)

## Master of Education in Teacher Leadership (M.Ed.)

Today's ever-changing educational landscape requires teachers who are equipped to be leaders in the classroom, able to foster collaboration within the school and community, and to understand and implement policies that impact students in K-12 classrooms, private schools, preschools, higher education and home schooling. This program provides teachers with the insights, knowledge and skills needed to better manage their classrooms, improve student outcomes and enhance their own professional growth as well as guide their peers toward more effective teaching strategies.

[education.udel.edu/teacherleadership](mailto:education.udel.edu/teacherleadership)



## ENGINEERING

### Online Graduate Certificate in Applied Bioinformatics

Bioinformatics is an emerging field where biological and computational disciplines converge, leading to job opportunities in rapidly growing fields like biomedicine, pharmaceuticals, healthcare, agriculture and data analytics. This four-course program is aimed at working professionals in the life sciences or data sciences who wish to gain knowledge and practical experience in bioinformatics. Focused on real-world applications, students will learn in an interactive, experiential and multidisciplinary team environment from nationally and internationally renowned researchers and practitioners in the field. No previous programming or database experience is required, but a familiarity with molecular biology concepts is recommended.

**CONTACT: bioinformatics@udel.edu**  
[bioinformatics.udel.edu/ABNF-CERT](mailto:bioinformatics.udel.edu/ABNF-CERT)

### Online Graduate Certificate in Biomedical Informatics and Data Science

Bioinformatics is an emerging field where biological and computational disciplines converge, leading to job opportunities in rapidly expanding fields of study with applications ranging from genomics to pharmaceutical, health informatics and biomedical research, having the potential to impact all areas of scientific research. This four-course program is aimed at working professionals in the life sciences or data sciences or as a complement to other UD degree programs who wish to gain knowledge and practical experience in fields where biomedicine, precision medicine, health informatics and data science intersect. Focused on real-world applications, students will learn in an interactive, experiential and multidisciplinary team environment from nationally and internationally renowned researchers and practitioners in the field. No previous programming or database experience is required, but a familiarity with molecular biology and statistics is recommended.

**CONTACT: bioinformatics@udel.edu**  
[bioinformatics.udel.edu/BIDS-CERT](mailto:bioinformatics.udel.edu/BIDS-CERT)

## Graduate Certificate in Composites Manufacturing and Engineering

Design rules for composite materials are fundamentally different than for traditional materials, with the engineer tailoring the material structure at the micro- and nano-scales to achieve desired mechanical and physical properties. This program is intended to provide the practicing engineer a strong foundation in the processing-structure-property relations in advanced fiber composites. UD's Center for Composite Materials and Department of Mechanical Engineering are internationally recognized as leaders in composites research and education.

**CONTACT:** [me-gradinfo@udel.edu](mailto:me-gradinfo@udel.edu)  
[me.udel.edu/academics/graduate/graduate-certificate-in-composites-manufacturing-engineering](http://me.udel.edu/academics/graduate/graduate-certificate-in-composites-manufacturing-engineering)

## Graduate Certificate in Cybersecurity

As cyber-systems become more integrated into society, the impact of cyberattack increases, necessitating the need for cybersecurity research and education.

The educational goals of this online graduate certificate are to impart cybersecurity best practices to professionals working in computing and related areas; provide a first step in students' pursuit of a graduate degree in cybersecurity, enabling them to become cybersecurity professionals; or serve as a first step in students' pursuit of a doctorate focused on cybersecurity.

**CONTACT:** 302-831-2406  
[ece.udel.edu/graduate/cybersecurity-certificate.html](http://ece.udel.edu/graduate/cybersecurity-certificate.html)

## Graduate Certificate in Railroad Engineering

The program prepares participants to meet railroad industry employers' expectations regarding knowledge of railroad and rail transit and is designed for engineering professionals working in the area of railroad engineering or for those desiring to expand their knowledge of railroad engineering and related engineering disciplines with the goal of advancement in the railroad industry.

**CONTACT:** [cee-info@udel.edu](mailto:cee-info@udel.edu)  
[railroadengineering.engr.udel.edu/courses/](http://railroadengineering.engr.udel.edu/courses/)

## Master of Science in Cybersecurity

Protect your organization from malware and infiltration with an NSA- and DHS-designated National Center of Academic Excellence in Cyber Defense Education program. Learn to design, execute and evaluate secure systems and software. Gain advanced instruction in engineering secure software and systems from a faculty of experts in technology and security. This 10-course program combines research and theory with application to address today's cybersecurity issues as an in-demand specialist.

**CONTACT:** 302-831-2406  
[ece-info@udel.edu](mailto:ece-info@udel.edu)  
[ece.udel.edu/online/graduate/masters-in-cybersecurity-online.html](http://ece.udel.edu/online/graduate/masters-in-cybersecurity-online.html)

## Master of Science in Electrical and Computer Engineering

Build your expertise in math, engineering and data science with a program focused on skill building across signal processing, data analytics, communication and cybersecurity to prepare you to lead solution development in data and communications. In addition to the master skill set of electrical and computer engineering, the program strongly focuses on the critical insights you'll need to secure, protect and implement the systems you create. Developed by a faculty with diverse corporate and research backgrounds, this flexible program is for those with prior degrees in electrical, computer or mechanical engineering, or computer

science or mathematics, and can be completed in as few as two years.

**CONTACT:** 302-831-2406  
[ece-info@udel.edu](mailto:ece-info@udel.edu)  
[ece.udel.edu/online/graduate/msece-online.html](http://ece.udel.edu/online/graduate/msece-online.html)

## Master of Science in Mechanical Engineering (MSME)

This online program is comprised of 30 credits covering not only the foundations of solid mechanics, fluid mechanics, heat transfer and dynamics but also electives in biomechanics, clean energy and environment, composite materials and manufacturing, energy efficient mobility systems and smart cities, robotics and controls, and more. Program faculty are the same world-class, awarded faculty who teach in the full-time, campus-based program.

**CONTACT:** [me-gradinfo@udel.edu](mailto:me-gradinfo@udel.edu)  
[me.udel.edu/academics/graduate/msme-online](http://me.udel.edu/academics/graduate/msme-online)

## Online Graduate Certificate in Minerals, Materials and Society

The 15-credit program is designed to equip students with the skills necessary to obtain jobs in the growing field of sustainable supply chain management and environmental and social responsibility, and to become world leaders and game changers in this arena. Among the first program of its kind in the United States that takes an interdisciplinary approach to linking science and policy issues associated with mineral and material sourcing, it builds on UD's strengths in earth science as well as in material science, energy policy, fashion and apparel studies and a range of social science disciplines.

**CONTACT:** [psyvrud@udel.edu](mailto:psyvrud@udel.edu)  
[sites.udel.edu/ceoe-mms](http://sites.udel.edu/ceoe-mms)



**NURSING/HEALTHCARE****Dietetic Internship**

This post-baccalaureate certificate program provides graduates of a didactic program in dietetics (DPD) with the knowledge and skills necessary to become registered dietitians with the creative problem-solving skills necessary in the field of dietetics. Upon successful completion of the program, students receive a verification of completion certificate and are eligible to take the Registration Examination for Dietitians.

**CONTACT: 302-831-4989**

**aleef@udel.edu • udel.edu/bhan/dietetic**

**Doctor of Nursing Practice (DNP)**

UD's Doctor of Nursing Practice program prepares graduates to perform at the highest level of advanced nursing practice. The foundation for practice expertise with a population health focus enables the graduate to plan and lead evidence-based interventions, quality improvement strategies and health policy changes that address patient safety, promote patient-centered care and reduce health disparities among diverse groups. Three concentrations are available in a hybrid-online and on-campus format: adult-gerontology nurse practitioner, family nurse practitioner and psychiatric mental health nurse practitioner.

**CONTACT: ud-gradnursing@udel.edu**  
**sites.udel.edu/nursing/graduate**

**Molecular Diagnostics Certificate**

This post-baccalaureate certificate program has a hybrid-online plus on-campus format, providing medical laboratory scientists working in forensics, biotechnology or pharmaceuticals with the opportunity to update skills and knowledge to help meet the demands of modern molecular biology theory and application. The program also provides individuals seeking Molecular Biology, American Society for Clinical Pathology (MB-ASCP) certification with a solid preparation for national credentialing examinations. The three-course program is comprised of two 14-week online lectures and one weeklong campus-based laboratory practicum.

**CONTACT: mms-dept@udel.edu**  
**sites.udel.edu/mms**

**PUBLIC ADMINISTRATION****Master of Public Administration (MPA)**

This program is designed to help public service professionals develop their knowledge of current societal issues and strengthen their administrative acumen using a curriculum based on applied research and contemporary case studies. Founded on theory, research and application-based solutions and taught by an interdisciplinary faculty, this flexible program challenges participants to apply best practices while mastering the strategies necessary to shape policy and lead effective management in government, nonprofit and private sectors.

**CONTACT: 302-831-1687**

**bidenschool@udel.edu**  
**bidenschool.udel.edu/masters-programs/**  
**masters-programs/mpa-master-of-**  
**public-administration**

**NONCREDIT PROFESSIONAL DEVELOPMENT AND CERTIFICATE PROGRAMS****BUSINESS****Socially Responsible and Sustainable Business—Online Short Courses**

- Risks of Human Trafficking
- Human Rights of Workers in Supply Chains
- Textile and Apparel Product Safety
- Impact of Corporate Purchasing Practices on Workers in Supply Chains

Over 4,800 supply chain professionals from 39 countries have successfully completed one of UD's Socially Responsible and Sustainable Business short courses, and 124 companies have used a course to train their employees in industries including apparel, footwear, pharmaceutical, manufacturing, retail, biotech, food processing, jewelry, packaging, telecommunications and electronics.

**CONTACT: 302-831-7600**



**continuing-ed@udel.edu**  
**pccs.udel.edu/srsb**

**ENGINEERING****Progressive Composite Damage Modeling in LS-DYNA**

Webinar for engineering and science professionals who wish to expand their knowledge of the mechanics of composite materials, focusing on the MAT162 composite damage model. See page 13.

**NURSING/HEALTHCARE****Advanced Telehealth Coordinator**

Provides the foundations of telehealth for participants interested in utilizing telehealth for the delivery of healthcare. See page 14.

**Clinical Trials Management**

Key competencies necessary for understanding and conducting clinical trials and new product development. See page 14.

**RN Refresher**

Online didactic course for nurses seeking to reinstate their license; clinical component coordinated locally. See page 16.

# GAINING CONFIDENCE FROM EXPERT INSTRUCTORS

## Jamie Spencer

Analytics: Optimizing Big Data  
Certificate

“When I enrolled in the Analytics: Optimizing Big Data Certificate program 13 years after earning my bachelor’s degree in business management, I had no idea what it would lead to. I was intimidated at first, but I soon realized I could quickly grasp the subject matter.

Shortly after receiving the certificate, I began pursuing my master’s in data science at Elmhurst College. I am nearing the completion of my degree and have straight A’s. The best part of the UD program was that it inspired a love of the subject for me. I didn’t have the confidence to go for my master’s in data science until I went through the UD classes, did the work and realized that I could indeed do this.

UD’s big data classes are taught by industry experts who each have more than 20 years of experience. They have done heavy statistical and analytical work for major organizations, and it was awesome to hear about their experiences. The credibility of the curriculum was recognized by Elmhurst when it accepted my Analytics: Optimizing Big Data Certificate for its prerequisite of a statistics course.”

*Jamie Spencer completed UD’s Analytics Optimizing Big Data Certificate program and is pursuing his master’s degree in data science at Elmhurst College.*



# HEALTHCARE FROM A DISTANCE

## The impact of telehealth during a pandemic

By Nora Zelluk

### Telehealth solutions take center stage

In Delaware and the surrounding region, telehealth experts and practitioners already knew the value of telehealth when it came to providing remote patient monitoring and virtual doctor visits to populations in underserved locations.

But in the current COVID-19 pandemic environment, telehealth solutions are taking center stage as healthcare providers seek to stay ahead of the crisis while offering continued care for their patients and the larger community.

For the providers with no previous virtual capabilities or with implementation plans in the works, many are accelerating their plans for telemedicine adoption.

### Increased pace of telehealth adoption

"The number of providers and practices who've approached us for telehealth expertise this spring has been unprecedented," said Carolyn Morris, director of telehealth planning and development for Delaware Health and Social Services (DHSS) and co-chair of the Delaware Telehealth Coalition.

As program director and lead instructor of the University of Delaware's Advanced Telehealth Coordinator Certificate program, Morris is also hearing from program graduates out in the field who are receiving similar requests for telemedicine expertise within their organizations.

"This crisis has made everyone think outside the box," said Morris. "Groups are accelerating their efforts to find ways telehealth can help mitigate the spread of infection, while still caring for their patients and clients and keeping the lights on during the current events that are impacting healthcare delivery as we know it."

### UD telehealth alum shares insights from ChristianaCare

At ChristianaCare, UD alumna Gemma Lowery is the telehealth program manager, responsible for leading and expanding telemedicine initiatives for the state's largest health system. One of the first graduates of UD's Advanced Telehealth Coordinator Certificate program, she is on the front lines of ChristianaCare's telemedicine program.

"Here at ChristianaCare, our longest-running telehealth effort is the Virtual ICU, where overnight physician coverage has been provided virtually for well over a decade, with many other telehealth initiatives since then," said Lowery. "And in the past weeks and months, we've been expanding virtual capabilities at a feverish pace."

At ChristianaCare, that has meant monitoring at-risk patients at home, creating virtual support groups and community outreach town hall meetings, and setting up video visits with providers and patients. An increase in

"virtual rounding" over traditional hospital rounds reduces exposure and helps conserve utilization of PPE (personal protective equipment).

### Continued benefits of telehealth

Experts anticipate that telehealth will remain an integral part of their organizations' caregiving practices even after the immediate pandemic crisis subsides.

Added Morris, "I suspect when the emergency is over that new, refined policies will make it easier for providers to continue using telehealth."

"The COVID-19 crisis has shined a bright light on the value of telehealth as a very significant part of our medical treatment toolkit," added Lowery. "We are very proud to be part of a new evolution in how medical care will be delivered going forward."



"THE COVID-19 CRISIS HAS SHINED A BRIGHT LIGHT ON THE VALUE OF TELEHEALTH AS A VERY SIGNIFICANT PART OF OUR MEDICAL TREATMENT TOOLKIT."

—GEMMA LOWERY





UNIVERSITY OF DELAWARE  
**PROFESSIONAL &  
CONTINUING STUDIES**

## 10 REAL-WORLD EXAMPLES OF HOW TELEHEALTH IS POWERING INNOVATIVE HEALTHCARE SOLUTIONS

### Telehealth initiatives hold exciting potential

Telehealth solutions provide:

- 1 Healthcare access in rural and underserved areas
- 2 Access to after-hours consultations
- 3 Real-time medication management
- 4 Increased medical professional collaboration
- 5 Greater access to speech pathology and therapy
- 6 Increased medical access to correctional facilities
- 7 Easier substance abuse/mental health treatment access
- 8 Additional privacy in reproductive care
- 9 Increased access to preventive dental care
- 10 Chronic condition management

Read the full article at [pcs.udel.edu/10-telehealth-solutions](https://pcs.udel.edu/10-telehealth-solutions).



DOUG BAKER

### UD's telehealth certificate program

Now in its fifth year, UD's Advanced Telehealth Coordinator Certificate program is focused on providing the foundations of telehealth for the delivery of healthcare, including technology evaluation, business and operational considerations, regulations, ethics, privacy and more.

First offered in 2016, the program was initially developed in partnership with Delaware Health and Social Services (DHSS). Input from other Delaware telehealth initiatives such as the Delaware Telehealth Coalition, Delaware Telehealth Roundtable and Delaware's State Health Care Innovation Plan helped reinforce the need for telehealth training.

UD's next **Advanced Telehealth Coordinator Certificate** program runs from **September 7–December 14, 2020**. See page 14 for details.



# UD OLLI launches nation's first OLLI-BASED BEN FRANKLIN CIRCLE

*Temperance Silence Order Resolution Frugality Industry  
Sincerity Justice Moderation  
Cleanliness Tranquility  
Chastity Humility*

By Nora Zelluk

## Self-improvement as a lifelong endeavor

Last fall, the University of Delaware's Wilmington-based Osher Lifelong Learning Institute (OLLI) became the first OLLI program in the country to start a Ben Franklin Circle discussion group, modeled after Benjamin Franklin's 18th century conversation club focused on civility and mutual self-improvement.

The 21st-century version was founded at New York City's 92nd Street Y (92Y), and now boasts over 300 chapters across the U.S.

OLLI member Diane Senerth read about Ben Franklin Circles in a *New Yorker* article and immediately thought of her fellow lifelong learners. The Ben Franklin Circle Discussion Group at OLLI began meeting as an extracurricular activity in 2019 and continued this spring on its path of exploration and discussion of Ben Franklin's 13 virtues: temperance, silence, order, resolution, frugality, industry, sincerity, justice, moderation, cleanliness, chastity, tranquility and humility.

## A perfect fit for OLLI

"I was uncertain how our OLLI community would respond, but I need not have worried," said Senerth, a community volunteer and retired education nonprofit executive. "I realized immediately that we had so much wisdom and experience in the room. Members brought their professional knowledge, parenting and grandparenting expertise, and

lifetimes of challenges and successes—and were willing to share their journey with others.

"Perhaps most impressive, these were people who were still willing to travel farther along on the path of self-improvement. As we age, there can be a tendency to believe that we have become who we will always be. It is inspiring to think that we are still capable of becoming better."

**"AS WE AGE, THERE CAN BE A TENDENCY TO BELIEVE THAT WE HAVE BECOME WHO WE WILL ALWAYS BE. IT IS INSPIRING TO THINK THAT WE ARE STILL CAPABLE OF BECOMING BETTER."**

—DIANE SENERTH

## Ben Franklin's virtues go virtual

This spring, when UD's OLLI programs started closing during the coronavirus (COVID-19) pandemic, the Ben Franklin Circle barely missed a beat.

"When I started our group, I could not have anticipated that our meetings would be interrupted by a global pandemic," said Senerth. "But I was loath to give up my connection with Ben Franklin Circles."

Hearing that 92Y was hosting a virtual circle, Senerth registered right away and discovered quickly that the Ben Franklin Circle experience translated well to an online format. She determined she could do the same for UD's OLLI group, adding, "Franklin's virtues are timeless and also apply in circumstances we could have never foreseen."

Although originally started as a Wilmington-based OLLI activity, Senerth opened up the virtual OLLI Ben Franklin Circle to OLLI participants from UD's other lifelong learning sites in Kent and Sussex counties.

Since the launch of UD's circle, facilitators from 92nd Street Y's Ben Franklin Circle program have been consulting with UD's OLLI Wilmington program as a potential model for launching Ben Franklin Circles at other OLLIs across the country.



# Osher Lifelong Learning Institute

**Are there topics you've always been curious about but haven't had the opportunity to explore? Join us online at OLLI this fall for engaging classes, thoughtful discussions, and fun virtual learning experiences with other adults.**

## It's your time to learn!

The University of Delaware is proud of its history as one of the earliest and largest lifelong learning programs in the country, hosting Osher Lifelong Learning Institute (OLLI) programs throughout Delaware. Structured as academic cooperatives, OLLI programs are open to adults aged 50-plus to take and teach classes together, with course offerings determined by member interest as well as the passions and expertise of the dedicated volunteer member-instructors at each location.

This fall, our virtual OLLI classrooms will bring together lifelong learners from across Delaware and immediate surroundings to experience the benefits of lifelong learning at home and connect with a vibrant community of adult learners at the OLLI Wilmington and OLLI Kent-Sussex programs. Online classes are offered on a wide array of subjects through the Zoom videoconferencing platform and all will be taught by experienced OLLI instructors from across Delaware.

All aspects of this new joint program will occur online, including registration,

**NEW!  
FALL CLASSES  
OFFERED ONLINE**

payment and class activities. Free training and technical assistance will be available throughout the process to support all course participants.

**For more details, visit [olli.udel.edu/fall-online](https://olli.udel.edu/fall-online).**

### OLLI Kent and Sussex Counties

302-645-4111

[olli-kent-sussex@udel.edu](mailto:olli-kent-sussex@udel.edu)

[olli.udel.edu/kent-sussex](https://olli.udel.edu/kent-sussex)

### OLLI Wilmington

302-573-4417

[LLL-wilm@udel.edu](mailto:LLL-wilm@udel.edu)

[olli.udel.edu/wilmington](https://olli.udel.edu/wilmington)

## WHAT MEMBERS SAY...

### CAMARADERIE AND LIFELONG LEARNING

"Lifelong learning has always been important to me, although none of my former teachers would be likely to describe me as a highly motivated student. They should see me now: I never thought I could love school this much." —**Joe Bailey, Dover**

"What I love about OLLI? The friendly people, many of whom have become dear friends; the interesting classes and fun events which lead to even more fun events; the camaraderie; and the wonderful, supportive staff." —**Carol West, Ocean View**

### CLASSES AND INSTRUCTORS THAT INSPIRE

"My favorite aspect of our UD lifelong learning program as a course leader is the lively interaction with class members. Our shared insights range from humorous to poignant ... and we often laugh heartily together." —**Gary Ramage, Lewes**

"We have found a home here at Osher and are loving our classes. We are truly getting a top-notch education and are so impressed with the hard work and dedication of all the instructors here at OLLI!" —**Ellen and Adam Goldstein, Wilmington**

### Interested in Additional Lifelong Learning Opportunities?

The University of Delaware's Master of Arts in Liberal Studies (MALS) program is great for intellectually curious adults. The interdisciplinary program gives students the flexibility to follow their academic passions by shaping their own courses of study. Composed of small seminar classes which invite broad thinking on issues of importance, the program is designed for returning adult students who can attend classes in the evening.

#### CONTACT:

**302-831-4130 • [mals.udel.edu](https://mals.udel.edu)**

**[mals-info@udel.edu](mailto:mals-info@udel.edu)**



UNIVERSITY OF DELAWARE  
**PROFESSIONAL &  
CONTINUING STUDIES**

501 S. COLLEGE AVENUE • NEWARK, DE 19716

Nonprofit Org.  
U.S. Postage  
**PAID**  
Permit No. 26  
University of  
Delaware

BUSINESS & IT | CODING | HEALTHCARE | PARALEGAL | SAFETY | TEST PREP

PROFESSIONAL DEVELOPMENT  
**LIVE-ONLINE**  
INFORMATION SESSIONS  
**AUGUST 17-20**

Held each evening at 7 p.m.

Visit [pcs.udel.edu/info-session](https://pcs.udel.edu/info-session) for  
program schedule and to RSVP.

Register and pay in full for a fall 2020 certificate  
program on or before July 16 or at an online  
information session and receive a 10% discount.



UNIVERSITY OF DELAWARE  
**PROFESSIONAL &  
CONTINUING STUDIES**