



UNIVERSITY OF DELAWARE
**PROFESSIONAL &
CONTINUING STUDIES**

FALL 2023

PROGRAMS AND COURSES

PCS EDUCATES FOR LIFE

*From pre-college to post-retirement,
we are here for you*

Cybersecurity industry
demand

Answering the call –
again

UD enters the digital
credentialing universe

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PCS EDUCATES FOR LIFE

From pre-college to post-retirement, we are here for you



In many of our biannual publications introducing our programs and courses for the upcoming semester, we focus on a theme featuring at least one aspect of the many services provided by our University of Delaware Division of Professional and Continuing Studies (UD PCS) team. Recent editions have centered on customized learning, the value of continuing education, our expert instructors, and our efforts to help our region recover from the COVID-19 pandemic and navigate the changing landscape.



Though we might isolate one of our functions to showcase, everything we do can be traced back to one quest: **to educate for life**. From pre-college programs that allow high school students to enroll in UD courses or prepare for college entrance exams, to classes that aid in career training and professional growth, to **Osher Lifelong Learning Institute (OLLI)** programs for adults aged 50 and over, UD PCS welcomes learners of many ages.



In conjunction with the needs of our lifelong learners, our programs are presented in various formats. While we have eagerly embraced the return to in-person gathering, we also know that virtual learning is needed and is here to stay. Many of our noncredit programs continue to be offered online in self-paced or live formats. Our **Instructional Design Certificate** is back after making a popular debut as is **Cybersecurity Fundamentals for Practitioners and Managers**, which is being complemented by an **Advanced Cybersecurity Defense Certificate** class. Other returning PCS courses include programs in business and information technology, drones, education, food and hospitality, healthcare, and law.

With the growth of learning options comes a need to easily verify the legitimacy of the curriculum. Recognizing the lack of standardization for the issuance of credentials or documentation of professional development education, the University of Delaware recently entered the digital credentialing universe for noncredit programming. As the pilot-program unit selected for this initiative, UD PCS is playing a leading role in moving UD into the digital credentialing environment and has already issued over 250 badges in just a few months.

Along with the ability to earn digital badges, students enrolled in many PCS classes are eligible to take advantage of career resources and services such as resume review, career path coaching and mock interviewing sessions as well as selected resources through the **UD Career Center**. This support continues for several months after completing a program.

On the credit side, our online education, MBA, business, engineering and nursing graduate degree programs are ranked among the best in the nation by *U.S. News & World Report*. Working professionals and adult students also turn to **UD's Associate in Arts Online program** as a vehicle to return to school and earn a college degree.

Whether you are preparing for a career, looking to sharpen your skills or seeking post-retirement enrichment, **UD PCS educates for life**. Please do not hesitate to contact us with any questions you have about how we can help you achieve your professional and personal goals. **Hope to see you soon!**



What can UD do for you?



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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, 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 executive education
- Lifelong learning opportunities
- Pre-college programs
- Professional development programs and courses
- Online learning opportunities through UD Online

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The UD Professional & Continuing Studies 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 new 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.
- 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! Contact the ACCESS Center to schedule an appointment.

Email: access-advise@udel.edu • **Phone:** 302-831-8843
pcs.udel.edu/access

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 non-degree student. You do not need to be admitted to the University to get started. As long as you

meet the course requirements or prerequisites, many University courses are available to students not currently admitted in a degree program, and a variety of courses are offered online and in the evening.

- **The fall semester begins August 29.**
- **For the latest information regarding the UD academic calendar, consult udel.edu/registrar/cal.**
- **Ready to search for a course? Visit udel.edu/courses.**
- **Ready to register? Visit pcs.udel.edu/registration.**
- **For questions, advisement or assistance with registration, contact the Professional and Continuing Studies ACCESS Center at access-advise@udel.edu or 302-831-8843.**

Over-60 free tuition benefit for Delaware residents admitted in an undergraduate or graduate program

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.

For more information, contact the Professional and Continuing Studies ACCESS Center at access-advise@udel.edu or 302-831-8843.

Lifelong learning opportunities

The University of Delaware hosts Osher Lifelong Learning Institute (OLLI) programs in New Castle, Kent and Sussex counties and online for adults to enjoy classes, teach, exchange ideas and learn together. Try out a new language, meet with a passionate discussion group or revisit your favorite areas of study from the comfort of your home, or on location. These volunteer-based academic cooperatives offer hundreds of courses each year, with no grades or exams and no educational prerequisites. **See page 11 for details.**





Customized learning

UD PCS is a leader in providing customized education programs to help your organization achieve its training and employee professional development goals. Programs are developed by leveraging the best research-based and applied knowledge for your organizational needs. UD's customized learning team will provide support with every aspect of a program from conceptualization through implementation.

Customized learning and organizational training

Customized training programs are tailored to your organization's needs and can be delivered online, on-site or on campus.

A wide variety of topics are available for customization, including business, healthcare and others, as well as executive education programs that meet the specific needs of your organization. University of Delaware faculty and external subject matter experts 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 design new or enhance your existing coaching programs, including professional and 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 and increasing employee retention.
- Gaining a UD backed credential and digital badge upon training completion.
- Improving relationships through diversity, teamwork and communications programs.

Learn more at pcs.udel.edu/customized, or contact Laura Valadakis at lval@udel.edu.

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 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 Analytics, Cybersecurity, Digital Marketing, Microsoft® Excel, Nonprofit Leadership, Project Management, Sales Development Science, Sales Operations Science, Self-Paced Programs, Social Media Marketing
- **Drone Training**—Ground School and FAA Part 107 Test Prep
- **Education**—Instructional Design, UD Montessori Teacher Residency
- **Food and Hospitality**—Brewing Science and Brewery Operations
- **Healthcare**—Clinical Trials Management, RN Refresher
- **Law**—Paralegal, LSAT Prep
- **Pre-College**—UD Dual Enrollment, SAT/ACT Prep
- **Test Preparation**—ACT, GMAT, GRE, LSAT, SAT, Praxis

See pages 14–27 for complete program listings.

Online learning opportunities through UD Online

The University of Delaware offers a wide variety of undergraduate and graduate credit courses from liberal arts to sciences—as well as 28 degree programs, certificate programs or professional development programs—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.



CYBERSECURITY INDUSTRY DEMAND

Training leverages award-winning platform and instructors' expertise

By Nora Zelluk

What started out as a winning University of Delaware Hen Hatch entrepreneurship project by three recent UD undergraduates has become an integral part of a new cybersecurity training program offered through UD's Division of Professional and Continuing Studies (UD PCS).

UD alumni Jason "J" Reynolds, Casey Rock and Dylan Martin initially created their virtual network simulation platform as a research project. "As students in a computer engineering or cybersecurity curriculum, we mostly were learning concepts," said Rock. "At the time, there really weren't extensive opportunities to face a realistic virtual network to practice what we were learning."

Working together, they created a cloud-based environment that simulates real computer networks for use in cybersecurity training and hacking practice activities.

Launched earlier this year, Cybersecurity Fundamentals for Practitioners and Managers was the first in a two-course series developed and taught by Reynolds, Rock and Martin to provide an introduc-

tion to key cybersecurity concepts and terminology. The follow-up Advanced Cybersecurity Defense Certificate is being offered this fall and features extensive hands-on practice in their cybersecurity training platform.

After undergraduate careers encompassing multiple cybersecurity initiatives and activities while still at UD, the three alums are now all full-time computer scientists or software engineers working as cybersecurity specialists in the defense industry or government agencies.

It was on the industry side of their experiences where they saw firsthand the dramatically increasing demand for professionals with cybersecurity skills at all levels.

"Cybersecurity risks, threats and challenges are increasing every day. The number of devices on the internet increases every day, with new technologies and new platforms, especially since the explosion of telehealth, telework and remote business during the pandemic," explained Rock. "Coming from a football background, I always say it's like playing defense against a hundred offenses," he added.

As a result, the industry holds opportunities at all levels, and not just at the advanced level of programmers and software engineers with specialized degrees.

"There are so many avenues you can go with cybersecurity," said Rock. "Of course there are many roles that are very technical and engineering-based, but there are also significant roles involved in compliance, risk evaluation, policy, management, policies and procedures, detection and testing."

The three instructors came to realize that along with their knowledge, education and experience in the industry, they had an opportunity to create a course around their virtual training platform that could provide opportunities for career changers, or anyone who wanted to add this timely skillset and knowledge to their resume.

"With our practice platform, we realized we had a critical hands-on component that would allow us to create a unique advantage for our teaching, with a fun and realistic way to learn skills to defeat hackers," said Rock.

For more details about both cybersecurity classes, see page 14.



ANSWERING THE CALL — AGAIN

UD's RN Refresher gives returning nurses tools for new challenges

By Beth Miller

Long before the crush of the COVID-19 pandemic, hospitals had a pre-existing condition. They were chronically short-staffed.

Now, after waves of COVID patients, surges of viral variants and the departure of thousands of nurses from the front lines, some healthcare facilities have found themselves in a critical condition, with too few nurses to meet the ongoing demand for care.

The good news is there are thousands of former nurses who have answered that call-to-duty bell before and many want to do it again.

The University of Delaware's online RN Refresher Program is made for them. It gives experienced nurses who have been on hiatus the opportunity to refresh their knowledge and skills, learn the (new) ropes and re-enter practice. This program is for returners — those who left the field to raise a family, care for a loved one, serve with the military or pursue other opportunities and now realize they want to come back.

"Many are nurses who want to return to practice but their licenses have lapsed or others with active licenses who want to transition back into direct patient care, having practiced in nontraditional nursing settings," said UD's Diane Beatty, coordinator of UD's program. "But they miss it. It's a calling."

More than 1,500 nurses have enrolled in UD's program so far, including students

from around the country and around the world.

Betsey Pierce of Phoenix, Maryland, is among them. She graduated from nursing school in 1992 and worked as a nurse for about nine years, with stops in pediatrics, a medical/surgical unit at Johns Hopkins in Baltimore, a rural hospital in Zimbabwe, a "float pool" (filling in as needed) at a local hospital, hospice, a boarding school in Kenya and managing workmen's compensation cases.

She stepped away from nursing when she and her husband started their family. As her kids neared college age, she started thinking about returning to work.

"What I love about nursing is that there are many different opportunities, and so much flexibility in choosing a work schedule," she said. "I have enjoyed trying several different types of nursing, which have given me many diverse and interesting life experiences. I have also truly enjoyed nursing because the work is about caring for people, which makes the work so fulfilling."

A few years ago, a friend told her she had taken the UD program and recommended she consider it.

Pierce completed the program in 2021 and now works as director of education for



UD RN Refresher graduate Betsey Pierce, RN, from Phoenix, MD is director of education for Avila Home Care.

Avila Home Care in Towson, Maryland.

"I loved the program," she said. "I feel like they did an excellent job with every aspect." For example, Pierce reported, "When I left nursing, we were still paper charting. We didn't have the computer systems." She learned about keeping electronic medical records during the clinical part of UD's program. She was glad to refresh her skills and also to be

able to think through some of the issues and challenges that nurses face today.

Offered by UD's Division of Professional and Continuing Studies, the program is held three times a year, with a typical cohort of 25-30 students. With online, self-paced learning that allows students to take classes at any time of the day or night, the program accommodates students' unique situations.

"I've had students who have taken this course, are hired by the same hospital where they completed their clinical rotation and later serve as a preceptor for our RN Refresher students," Beatty said. "They have come full circle."

For more information about the RN Refresher online program, or to read the full version of this article, visit pcs.udel.edu/rn-refresher.



TOOLS FOR CAREER NAVIGATION

Career-focused resources add valuable support for noncredit students

The University of Delaware's Division of Professional and Continuing Studies (UD PCS) recently began offering an expanded suite of career-focused resources to UD PCS certificate program students.

Participants enrolled in designated non-credit professional development programs now have access to resources and tools like resume review, career path coaching and mock interviewing sessions as well as to selected career resources through the UD Career Center.

"This has been a recurring request from both prospective and current students as well as UD PCS graduates and faculty," said Vic Wang, director of UD PCS noncredit professional programs. "They've asked us about extra career resources to help navigate a career change, optimize their job search and maximize potential opportunities that may come with adding a new credential to their resumes," added Wang.

"It's a really significant development," said Debra Fields, program manager for UD PCS career services. "In addition to directly providing some great career services to our noncredit students, we've also collaborated with the UD Career Center to enable students' access to important resources that



Career changes
Job search optimization
New resume credentials

historically have been available primarily to matriculated UD students and alumni."

Since the program's inception, Fields has worked with multiple cohorts of UD PCS noncredit and professional development students, assisting with resume review, interview preparation questions and access to other resources.

"Another area where we've been able to provide some much-needed support is with prospective students, who understandably want to research how a program could potentially benefit their career goals, before they sign up for the course," said Fields.

Resources include assistance with career goal and career path assessment, one-on-one coaching and support while they're enrolled in the UD PCS program, as well as for a follow-up period after program completion.

Students are able to attend UD career and networking events—both in person and virtual—as well as participate in the Handshake network, a database of thousands of internships and jobs posted specifically for UD students and alumni.

In addition to the resources and support offered through the UD PCS career services initiative, students can take advantage of free academic advisement and career exploration provided by the UD PCS ACCESS Center. ACCESS Center services include academic advisement, educational planning and career exploration, all offered at no cost to prospective and existing continuing education students, as well as the larger community.

For UD PCS students who also happen to be matriculated UD students or UD alumni, or for alumni, businesses and members of the community who wish to connect with UD graduates as mentors or potential employers, more information about UD career resources can be found at www.udel.edu/career-center.

For details, including a complete list of UD PCS career services eligible programs, visit pcs.udel.edu/career-services.



UD ENTERS THE DIGITAL CREDENTIALING UNIVERSE

Display your well-earned educational accomplishments

By Nora Zelluk

Diplomas or certificates framed on your wall, copies of transcripts stored in your files — until recently, those were the time-honored means of demonstrating, displaying or storing your educational credentials.

But both the educational and employment landscapes have evolved in recent decades, with exponential growth in the online environments around learning, recruiting, hiring and more. At the same time, the focus on our online personal and professional brands has dramatically increased, evidenced by the importance of our LinkedIn profiles and other professional platforms where we seek to differentiate ourselves and communicate our professional identity.

Not much has changed in the world of our high school or college diplomas, degrees and transcripts, which are generally accepted and verifiable by employers across industries and professions. But credentials or documentation for nearly all other types of professional development education or skill enhancement activities is far less standardized.

For an increasing number of education providers and institutions, as well as for the students and professionals who are completing their courses and programs, digital badges are becoming the credential of choice. Digital certificates and badges provide an immediately-delivered credential that users can display electronically on their social media accounts upon successfully

completing a course or program, and that potential employers can instantly verify on a vetted, authenticated platform.

The University of Delaware recently entered into the digital credentialing universe, adopting the Accredible platform for managing digital credentials for noncredit programming at UD. The launch of digital credentials began last semester with UD's Division of Professional and Continuing Studies (UD PCS) taking the lead on the first round of UD's digital badging initiative.

"As the pilot-program unit selected for UD's digital credentialing initiative, we're pleased to report our badging efforts have been very successful," said Vic Wang, director of non-credit professional programs for UD PCS. "The badges were well received, and from our initial data, we can see that participants are engaging and sharing their digital badges on multiple channels."

"More than 250 badges have been issued to program graduates since the beginning of this initiative, in programs from clinical trials management, to cybersecurity, brewing science and more," reported Debra Fields, program manager for UD PCS career services. "So far, about a third of those have shared the badge on their LinkedIn account, which we think is a huge plus for their professional brand."

"It's a simple way to show what you have achieved instead of writing out everything," said one recent program graduate who

earned a UD PCS digital badge. "All employers need to do is scan your badge to see what you have completed."

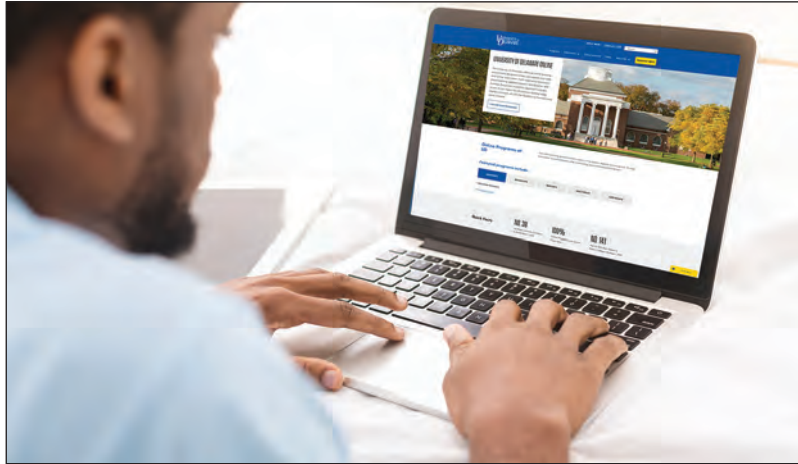
From the beginning, UD's badging initiative focused on noncredit, professional education programs and courses at UD, which did not have a University-wide method of documenting and issuing credentials to program graduates.

Key in UD's decision was adopting a platform that complied with the internationally recognized Open Badges Specification, developed and certified by IEdTech Consortium, the world's leading member-based nonprofit community partnership of educational providers, state/national departments of education and educational technology suppliers.

UD's research and implementation effort was led by a cross-functional working group with broad UD representation. A UD Badging Governance Committee was subsequently formed, chaired by Wang, with the aim of providing oversight for the planned University-wide digital credentialing implementation.

Added Wang, "We are proud to offer our participants this method of showcasing their accomplishments and proud to play a leading role in moving UD into the digital credentialing environment."

For more information about digital badges at UD, visit pcs.udel.edu/digitalcredentials.



LEADERS IN ONLINE LEARNING

Programs recognized by *U.S. News Best Online Programs Rankings*

By Adam S. Kamras

Five University of Delaware online graduate degree programs were ranked among the best in the nation by *U.S. News & World Report* in its 2023 *U.S. News Best Online Programs Rankings*.

Based on categories of engagement, peer assessment, faculty credentials and training, student excellence, and services and technologies, programs are evaluated using data reported by the institutions to *U.S. News* in statistical surveys and from data collected in separate peer assessment surveys.

"The University of Delaware has a long history of offering outstanding graduate programs," said Louis F. Rossi, dean of UD's Graduate College and vice provost for graduate and professional education. "We know that there are many people who would like to benefit from our graduate programs and, because of their schedule or the distance they live from our campus, our online options provide them with the best opportunity to do so. Where it is possible, we want to bring UD's unique and exceptional offerings to the world."



"We are pleased that our UD Online degrees remain highly ranked by *U.S. News*," said George Irvine, UD associate vice provost for Professional and Continuing Studies and online initiatives. "It is a testament to UD's accomplished faculty, high-quality teaching and course design, and great educational outcomes for our students."

Education

UD offers four online master of education degrees in literacy, teacher leadership, educational technology, and exceptional children

and youth. "This year, our college jumped eight places in the rankings, which places our programs within the top 20 of more than 330 programs across the nation," said Gary T. Henry, dean of the College of Education and Human Development and professor in the School of Education and the Joseph R. Biden, Jr. School of Public Policy and Administration. "Unlike many online programs, our programs are designed and primarily taught by full-time faculty, many of whom are recognized as leading experts in online education, committed to developing programs that are both engaging and responsive to our students' needs as education professionals."

MBA

The UD Online MBA program features intensive seven-week terms, advanced digital curriculum with robust interaction with faculty and peers, and access to personal career coaching. "There are now over 350 accredited online MBA programs," said Bruce Weber, dean of UD's Alfred Lerner College of Business and Economics. "It speaks to the high standards of the Lerner program that it is ranked 33rd in the latest rankings. Placing in the top 40 shows students and our stakeholders that the Lerner Online MBA is a first-rate learning opportunity that opens rewarding career paths."

Business

UD's online master's in accounting practice program, focused on financial reporting, management and database design, enables students to gain expertise in the understanding of accounting, the assurance function, tax regulations, business law and the business environment. Program graduates are able to sit for the Uniform CPA Exam. The online master's in international business program features core courses on globalization, business strategies and market research, while allowing students to selectively focus on business fundamentals, finance and healthcare. "The fact that [these programs] were recognized for the first time out of 224 programs is a testament to the high-quality experience we provide for the online learner,"

said Jack Baroudi, senior associate dean for academic programs of UD's Lerner College.

Engineering

UD's online graduate engineering programs are offered in applied bioinformatics, biomedical informatics and data science, railroad engineering, cybersecurity, electrical and computer engineering, mechanical engineering, and composites manufacturing and engineering. Online students take the same courses that full-time, on-campus engineering students take, enabling synergy between research and industry. "Our new ranking is a testament to the quality of and growing interest in online programs that we offer," said Levi Thompson, dean of the College of Engineering. "Our online curricula are preparing students to immediately succeed in today's workforce after completing their degrees, and they can participate in courses from almost anywhere in the world."

Nursing

The master of science in nursing prepares nurses for advanced practice roles in today's complex healthcare systems, emphasizing the clinical progression of

patients, care transitions and processes, and evidenced-based practice. Courses are offered in a hybrid format with clinical rotations in each student's state of residency. "We prepare nurses to meet societal healthcare needs through a robust, holistic curriculum that allows our students to learn and hone skills that will enhance the lives of their patients," said Elizabeth Speakman, chair of UD's School of Nursing. "We are honored to be recognized as among the best in the country."



About online learning at UD

UD counts itself among the leaders of online and distance learning, from its original launch in 1988 with videotaped lectures for a few degree programs, evolving and expanding into today's dynamic virtual classroom. UD Online offerings now encompass hundreds of classes and new online degrees launched every year.

For more information about online programs at the University of Delaware, visit online.udel.edu.

Associate in Arts Online offers degree-earning opportunity

By Nora Zelluk

If you were to Google "I want to go back to earn a college degree, but where should I start?" there is no shortage of suggestions and advice on the topic.

For many working professionals and adult students, a welcome answer to that search question has been provided by the University of Delaware's Associate in Arts Online degree program, which offers an opportunity to earn a two-year UD degree that can serve as a potential building block for a four-year degree.

With a mantra of "A UD degree is closer than you think," the Associate in Arts Online is a liberal arts degree representing completion of approximately half of a UD bachelor of arts degree. Most students find that many of their previous college credits are transferable into the program, and they are able to



begin coursework prior to formal admission.

Prospective students work with advisors in UD's ACCESS Center to develop an educational plan, evaluate any prior college coursework for potential transfer, and generally plan ahead since many students ultimately end up pursuing a bachelor's degree. There is no cost for advisement and academic support provided by the ACCESS Center.

"It is so rewarding to work with students in this program," said Michelle Parnell, director of student services for the ACCESS Center. "The Associate in Arts Online is a great opportunity for adults to take courses toward an associate degree while managing everyday commitments, often balancing work, family and other responsibilities while pursuing their education. The online format allows students the flexibility they need, and while some find that the degree meets their educational

goals, others ultimately apply the credits they earned toward a bachelor's degree."

"This program serves as a great intermediate goal for many students who may initially be overwhelmed by the prospect of finishing a bachelor's degree," said Trish Moore, academic advisor in UD's ACCESS Center. "It gives students an achievable goal after just 60 credits, after which they can decide if they want to continue with more education."

"Most of the students I have worked with have decided to continue, because they've finally experienced academic success—when they may not have had success in their prior college experiences—and are highly motivated to continue to complete this long-awaited item on their bucket list," added Moore.

For more information about the Associate in Arts Online, visit pcs.udel.edu/associate-arts-online.



SEIZING OPPORTUNITIES

OLLI member and instructor shares her experience

By Jean Youkers



I was a kid who liked to go to school, then an adult who seized opportunities to learn new things whenever I had spare time. I always said I'd like to go to school forever and after

I retired, I discovered a way to do just that. The answer was Osher Lifelong Learning Institute, the popular educational cooperative for individuals over 50, part of the University of Delaware.

Programs nationwide

OLLI programs operate in all 50 states, affiliated with 125 colleges and universities. I attend in-person classes at Arsht Hall in Wilmington. Downstate classes are held in Ocean View, Lewes, and Dover, with Zoom classes available to members throughout Delaware and beyond.

Our wonderful program is powered by enthusiastic and knowledgeable all-volunteer instructors and other volunteers, supported by a small but tireless and dynamic staff.

Delaware's OLLI program has one of the

most extensive rosters of offerings in the country, including courses in literature, technology, history, the arts, humanities, science, and languages. There are instrumental and vocal music groups, extracurricular activities, and special events. Each semester, I struggle to decide what to select from so many enticing options.

A variety of opportunity

In my six years of membership, I've thoroughly enjoyed new challenges —

"In my six years of OLLI membership, I've thoroughly enjoyed many new challenges."

from learning to stand on one foot and be quiet as I learned the moves in Beginning Tai Chi to memorizing a Shakespeare sonnet and writing my own poems in poetry

classes. I learned new techniques in Word, Excel and Desktop Publisher. Teaching me anything related to technology is not an easy task, but each instructor was incredibly patient, taking the time to explain things as often as necessary. I've taken history and current events courses



LEARN MORE AT AN OLLI OPEN HOUSE

AUGUST 7 – Lewes (10 a.m.–noon)

AUGUST 8 – Wilmington (10 a.m.–1 p.m.)

AUGUST 9 – Ocean View (10 a.m.–noon)

AUGUST 10 – Dover (10 a.m.–noon)

Course registration opens August 3; classes start September 5.

in lecture format, along with interactive art appreciation classes.

Other experiences ranged from serious discussions on soulfulness to laughing out loud at funny movies. This year, I'm learning how to make watercolor paintings without using too much or too little paint, unraveling mysteries of brushes, paper, and other creative implements. I've discussed books in literature classes, and enjoyed listening to performances by OLLI's choruses, bands and other musical ensembles.

Member instructors take the lead

They even let me teach. I've taught summer courses in fiction writing and humor writing, including in summer of 2021 when classes were held outdoors as we regrouped from the pandemic shut-down. Most instructors say that they, themselves, learn new things from

research and preparation for the classes they teach. Instructors and students alike are at OLLI voluntarily, seeking knowledge in a fun environment where there are no tests or grades.

The program meets the needs of people who are passionate about learning and I'm thankful to be part of it. OLLI provides stimulation, structure, challenges, and socialization. We are never bored. For information on how to join us in our quest for knowledge, please visit olli.udel.edu.

Jean Youkers is a Delaware writer and an OLLI member and volunteer instructor, regularly teaching writing classes. Last year, this piece appeared on DelawareOnline.com/USA TODAY Network as a guest column titled "I'm giving thanks for the Osher Lifelong Learning Institute."

**One low registration fee—
TAKE AS MANY CLASSES AS YOU WANT!**



OVER 300 FALL CLASSES PLANNED

Following is a small sampling of fall classes and topics planned, to be held weekly for 5, 11 or 13 weeks at UD OLLI locations in Dover (D), Lewes (L), Ocean View (OV), Wilmington (W) and Online (O).

Exact classes and locations are subject to change.

ART

Card Making (L, OV, W)
Creating Comics (W)
Fiber Arts, Fabric Dyeing (W)
Gothic Cathedrals (W)
Photography (O) • Stained Glass (L)
Watercolor, Painting (OV, O, W)

PERFORMANCE AND APPRECIATION

Alfred Hitchcock Films (D)
Chorus (W, L) • Drum Circle (W)
Guitar (W)
International Folk Dance (W, O, L)
LGBTQ Films (O)
Native American Flute (W)
Pacific Island Dance (OV)
Rock Band, Orchestra (W)
Theater Appreciation (D)

HEALTH, FITNESS

Hiking, Walking Groups (W, L)
Meditation (O)
Plant-based Eating (L, O)
Tai Chi, Yoga (W, L)

HISTORY

1920s History (OV, L, O)
Ancient Jewish History (L, O)
Civil War: Antietam (D, O)
Helen Keller and Teacher (D, O)
Holocaust History (L, W, D, O)
Russian Empire History (W)

LANGUAGE

American Sign Language (O)
French (D, W, O) • German (O)
Italian (W, O) • Latin (W)
Spanish (W, O)

SCIENCE, ENVIRONMENT

Eco Team (W)
Environmental Lectures (O, L)
Nature in Autumn (O)
Zero Emission Electricity (L)

PERSONAL INTEREST, HOBBIES

Bird Watching (W) • Book Club
Crafts, Knitting (D, O, L)
Genealogy (O) • National Parks (W)
News, Current Events (L, W, OV)
RV Lifestyle (L) • Sudoku Puzzles (L)

FUNDING AVAILABLE FOR NONCREDIT PROFESSIONAL DEVELOPMENT

The Delaware Department of Labor's **Elevate Delaware** program helps fund professional development and training opportunities for individuals and employers. If you meet program eligibility requirements, you could complete a UD professional development noncredit program at no cost to you!

With \$1.5 million allocated to Elevate Delaware, the program is available to individuals who work in Delaware for organizations with fewer than 51 employees. "The Elevate Delaware program provides an excellent

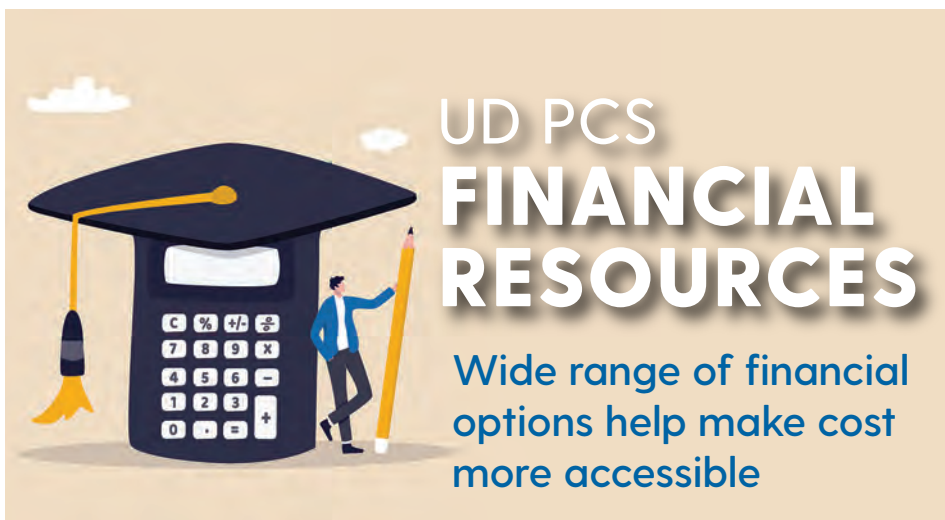


Focused on Delaware small businesses & their employees

opportunity for individuals to obtain significant funding to help meet their professional development goals, as well as for employers to obtain support for training and development for their staff and team members," said Vic Wang, director of UD PCS noncredit professional programs.

Providing up to \$10,000 to eligible individuals enrolling in approved noncredit professional development programs, funding may also be available to help Delaware organizations build and facilitate customized UD professional development courses for their employees or members.

For details, visit pcs.udel.edu/elevate-delaware.



The University of Delaware's Division of Professional and Continuing Studies (UD PCS) is committed to helping make the cost of participating in continuing and professional education programs more accessible for everyone. Many students enrolling in credit classes and noncredit programs may be eligible for the following financial assistance, resources and discount options.

Scholarships and financial aid

Partial scholarships based on financial need are available for nonmatriculated UD credit students, and for participants in many UD PCS noncredit programs. Eligibility is confirmed through an application process. For details, visit pcs.udel.edu/scholarships.

External scholarships may also be available for Continuing Education students. Students may explore potential opportunities through the information and links provided by UD's Office of Student Financial Services. Learn more at pcs.udel.edu/scholarships.

A special need-based scholarship, offered by UD PCS, is available for students enrolling in ACT, SAT, GMAT, GRE or LSAT test prep programs. For details, visit pcs.udel.edu/test-prep.

Discount options for noncredit programs and courses

Several discount options are available for UD PCS noncredit and professional development program registrations, including discounts for early registration, UD alumni, UD students, veteran or active duty military, group discounts for registrations of two or more from the same organization, and some business and organizational membership discounts, such as the Delaware State Chamber of Commerce and more. Learn more at pcs.udel.edu/financial.

Veterans benefits

Select UD PCS professional development programs are approved for VA funding, subject to individual benefit eligibility, which may include service members, veterans, spouses and other family members. Currently, the approved noncredit programs include Clinical Trials Management (page 23), Project Management (page 16), Paralegal (page 24) and RN Refresher (page 24).

All University of Delaware undergraduate and graduate programs are approved by the Delaware State Approving Agency for training of veterans. Students must be admitted UD students to apply their veterans benefits to earn a degree. For details, visit pcs.udel.edu/veterans.

Installment payment

A credit card installment payment plan is available for selected noncredit professional development programs. Also, installment payment is available for UD credit tuition payment in the spring and fall major semesters. An installment fee is charged. For details, visit pcs.udel.edu/financial.



MEET WITH US TO LEARN MORE

PCS Information Session set for July 13

The community is invited to learn more about professional development programs offered by the University of Delaware's Division of Professional and Continuing Studies (UD PCS) in fall 2023 by attending a free virtual information session on July 13 at 7 p.m.

Although detailed program information can be found on the programs' webpages, the live-online information session allows participants to interact directly with the experts teaching the courses, providing a real-time opportunity for Q&A and feedback.

Each semester, information session participants tell us what a valuable experience it is to hear directly from their prospective instructors, who range from industry experts, business owners, college professors and other veteran educators, graduate degree holders, certified practitioners, and leaders in their fields – all who practice what they preach and are eager to share their knowledge.

In addition to program-specific details like industry outlook and course expectations, topics covered at the information session include financial assistance options and career resources available to most students and graduates of UD PCS certificate

programs (page 12).

Students in UD PCS noncredit programs may be eligible for financial assistance and discounts. Payment plans, discounts or scholarships are applicable for most programs and include discounts for veterans and members of the military, groups of two or more, professional associations, and UD alumni, students and employees. Students may be eligible for funding from the Elevate Delaware program if they are employed by Delaware businesses with 50 employees or less (page 12).

As a side benefit of attending the virtual info session, participants have the opportunity to enter three raffles for registration discounts applicable to most UD PCS noncredit programs. Participants are automatically entered in two of the raffles simply by attending the virtual event and completing the evaluation form. Posting on Facebook or Twitter with the hashtag #UDPCS enters participants in the third discount raffle. For details and rules, visit pcs.udel.edu/raffle.

RSVP is required to participate in the virtual information session. Please see details on this page, or at pcs.udel.edu/info-session.

INFORMATION SESSION

Thursday, July 13 at 7 p.m.

BUSINESS & IT

- Business Analytics Science
- Cybersecurity, Fundamentals and Advanced
- Nonprofit Leadership
- Project Management
- Sales Development Science
- Sales Operations Science

DRONE TRAINING

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

EDUCATION

- Instructional Design
- UD Montessori Teacher Training

FOOD & HOSPITALITY

- Foundations of Brewing Science and Brewery Operations

HEALTHCARE

- Clinical Trials Management
- RN Refresher

LAW

- Paralegal (Virtual Info Session held July 11)

Visit pcs.udel.edu/info-session for program schedule and to RSVP.



Fall 2023 courses and programs

FREE LIVE-ONLINE INFORMATION SESSION

**Thursday, July 13
7–8 p.m.**

LEARN MORE



Join us for a live-online information session to learn more about fall 2023 professional development programs, speak with instructors

and ask questions about the programs you're interested in.

This session will include programs in Business and IT, Drones, Education, Food and Hospitality, and Healthcare.

Scan code above, see page 13, or visit pcs.udel.edu/info-session for details.

BUSINESS AND IT

CREDIT DEGREE | ONLINE

Applied Statistics, Master of Science (M.S.)

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

onlinestats.canr.udel.edu

NONCREDIT CERTIFICATE | ONLINE

Business Analytics Professional Certificate

Delivered online, the Business Analytics Professional Certificate program is taught by industry experts and covers the key areas required to be effective at utilizing data to help an organization optimize its business processes by making better, more

informed decisions. In this 10-week course, you will learn key concepts and strategies, get hands-on practice (with feedback from experts) and earn in-demand credentials. Along with creating a Business Analytics Playbook to help a real-world company leverage data to extract and visualize actionable insights using the latest techniques and industry tools, you will also learn strategic concepts such as data modeling, accessing data with SQL, data visualization and KPI development.

In addition, you'll walk away with hands-on technology experience and be fully prepared to take your Tableau Desktop Specialist Certification exam. Weekly, you should expect to spend four to six hours engaging with on-demand content created by industry experts, including activities and assignments in the online learning portal. Additionally, weekly live-online, one-hour, optional but recommended group sessions are available for engaging in real time with peers, experts and mentors.

WHO SHOULD PARTICIPATE?

- Individuals considering a career in an analytics-related capacity who want to build data-oriented skillsets and gain their Tableau Desktop Specialist Certification
- Business-focused professionals looking to develop new skills to expand career opportunities or improve potential for advancement in marketing, sales, finance, business operations, human resources or other related fields
- Recent graduates looking to gain a big-picture understanding of business analytics and build in-demand skills employers are seeking
- Entrepreneurs looking to grow their business by utilizing skills in data extraction, modeling and visualization

SCHEDULE: Classes start monthly. Please visit our website for schedules.

LOCATION: Online

ba.pcs.udel.edu

CREDIT CERTIFICATE | ONLINE OR IN-CLASS

Business Essentials Certificate

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

- Economic Issues and Policies
- Survey of Accounting
- Introduction to Business (offered online only)
- Fundamentals of Finance

CONTACT: access-advise@udel.edu

302-831-8843 • pcs.udel.edu/essentials

NONCREDIT CERTIFICATE | ONLINE

Cybersecurity Fundamentals for Practitioners and Managers Certificate

Start here to learn the concepts, tools and terminology of the field

Cybersecurity is an essential topic for many businesses, schools, banks and other organizations. As our lives evolve online, it is critical to prioritize securing our online identities and assets. Additionally, with online business transactions becoming a standard, every employee must understand how to keep information and their networks safe. Designed to give participants a general awareness of cybersecurity and to familiarize them with basic tools and terminology, this course covers fundamentals of cybersecurity and acts as a starting point into a cybersecurity career. This course provides participants with the foundational skills and vocabulary enabling pursuit of further training or certification, in preparation for entry into the cybersecurity field. Topics include:

- Cybersecurity terms
- Networking
- Attacks, vulnerabilities, threats
- Security assessments, mitigation and penetration testing
- Cybersecurity framework
- Risk assessments

WHO SHOULD PARTICIPATE?

- Anyone interested in a career change who possesses an interest in technology and security
- No prior cybersecurity experience required

SCHEDULE: Self-paced online course with live-online, instructor-led sessions Monday and Wednesday evenings, September 18–November 3, 2023 (details on the web)

LOCATION: Online

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

pcs.udel.edu/cybersecurity-fundamentals

NONCREDIT CERTIFICATE | LIVE-ONLINE

NEW! Advanced Cybersecurity Defense Certificate

Hands-on techniques and tools addressing real-world challenges

Data and information are the building blocks of today's organizations. Most security experts no longer speculate as to whether an organization will be targeted, rather when and how. It is imperative that corporations stay ahead of the next cyberattack. This program is designed to advance participants' cybersecurity literacy and provide practical hands-on skills with proven techniques for assessing risk and safeguarding data. Participants will apply cybersecurity concepts to complete advanced technical challenges utilizing tools that are employed in the field today. This program is designed to serve as a steppingstone for entry into the cybersecurity industry.

Topics include, but are not limited to:

- Command line interfaces
- Packet sniffing
- Penetration testing

- Network firewalls
- Intrusion detection
- Vulnerability scanning
- SQL injection
- Cryptography
- Digital forensics
- System hardening
- Reverse engineering

WHO SHOULD PARTICIPATE?

- Anyone interested in advancing their knowledge of cybersecurity utilizing real-world tools and hands-on exercises
- Some prior cybersecurity knowledge beneficial

SCHEDULE: Self-paced online course with live-online, instructor-led sessions Monday and Wednesday evenings, September 6–December 18, 2023 (details on the web)

LOCATION: Online

PRICE: \$2,195. *Payment plan, scholarships and potential discounts available including: Early registration, Military, UD student or alum, 2 or more (group).*

pcs.udel.edu/cybersecurity-defense

NONCREDIT COURSE | ONLINE

Foundations of Digital Marketing Certificate

Meet your audience online

What is digital marketing and why does it matter to businesses? How can you incorporate digital into your marketing mix to meet your audience online? The objective of this course is to introduce foundational marketing concepts needed for digital marketing. Participants will learn to:

- Define digital marketing terms
- Differentiate between the characteristics of traditional and digital marketing
- Differentiate among inbound and outbound marketing strategies
- Distinguish between the different digital channels and the opportunities they provide for business online
- Distinguish examples of digital media used in digital marketing
- Coordinate a competitive analysis
- Differentiate between types of benchmarking
- Conduct a SWOT analysis
- Develop a brand standard
- Discover target audiences and craft

audience personas

- Create customer journey maps and marketing funnels
- Craft a brand story

WHO SHOULD PARTICIPATE?

- Anyone involved in the planning, implementation or measurement of digital strategies or who would like to pursue a career in these areas

SCHEDULE: Self-paced class can be started anytime.

LOCATION: Online

PRICE: \$495. *Potential discounts available including: Military, UD student or alum, 2 or more (group).*

pcs.udel.edu/digital-marketing

CREDIT DEGREE | ONLINE

International Business, Master of Science (M.S.)

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

CREDIT DEGREE | ONLINE

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
844-237-1338 • mbaonline.udel.edu

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.

All students should have Microsoft® Excel 365 or a previous version.

NONCREDIT COURSE | LIVE-ONLINE

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 5–October 3, 2023, 6–9 p.m.

LOCATION: Live-online

PRICE: \$495, course materials included.
Potential discounts available, including:
Early registration, Military, UD student or alum, 2 or more (group).

pcs.udel.edu/ms-excel



NONCREDIT COURSE | LIVE-ONLINE

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 10–November 7, 2023, 6–9 p.m.

LOCATION: Live-online

PRICE: \$495, course materials included.
Potential discounts available, including:
Early registration, Military, UD student or alum, 2 or more (group).

pcs.udel.edu/ms-excel

NONCREDIT COURSE | LIVE-ONLINE

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.

WHO SHOULD PARTICIPATE?

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

SCHEDULE: Tuesdays, November 14–December 12, 2023, 6–9 p.m.

LOCATION: Live-online

PRICE: \$495, course materials included.
Potential discounts available, including:
Early registration, Military, UD student or alum, 2 or more (group), UD employee.

pcs.udel.edu/ms-excel

NONCREDIT CERTIFICATE | LIVE-ONLINE

Project Management Certificate

Learn project management best practices and theories for Waterfall, Agile and Hybrid methodologies

Successful companies and organizations in all fields 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. Participants in this course learn by applying these tools and experiencing both the art and science of managing a successful project through the project life cycle. Whether you are new to the project management discipline or looking to formalize your project management experience, this course provides current foundational knowledge to boost your project management skills. Participants will define a project and explore best practices in predictive (Waterfall), adaptive (Agile) and Hybrid project methods, applying the tools required for successful project delivery. Students acquire a set of functional tools and techniques that can immediately be applied in the workplace.

This course provides current foundational knowledge and offers an opportunity to earn the professional development units (PDUs) required by the Project Management Institute (PMI®) to maintain certifications or earn the contact hours needed to apply for a certification exam. While delivering best practices, this course is not specifically designed for exam preparation.

The curriculum applies principles from the PMBOK® (A Guide to the Project Management Body of Knowledge®) and the PMI® Agile Practice Guide, as well as references from other leading publications.

WHO SHOULD PARTICIPATE?

- Newly promoted/aspiring project managers
- Project leaders interested in achieving the next level of management skills
- Project managers seeking to meet the project management education hours requirement for the Project Management Institute's PMP® or CAPM® certifications

- Anyone seeking to better understand fundamental project management principles to increase project success, whether personal or professional

SCHEDULE: Wednesdays, September 13–November 15, 2023, 6–9:30 p.m.

LOCATION: Live-online

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

pcs.udel.edu/project

NONCREDIT CERTIFICATE | ONLINE

Sales Development Science Certificate

The explosion of new technologies has transformed selling activities within any sales team. Tools, data, analytics, protocols and processes now play as big a role as persuasion and persistence. The Sales Development Science Certificate explores the science behind these activities and the data-driven strategies for developing, managing and converting sales leads and pipeline into revenue. Delivered online, this 10-week course is taught by industry experts and covers all of the key areas required to sell more efficiently and effectively. Along with creating a Sales Development Playbook to advance a real-world company's sales team efforts for increased sales performance and revenue, you will learn strategic concepts such as data management, customer value proposition and insights, customer personas and prospecting, pipeline management, and opportunity development. In addition, you will have access to a live Salesforce developer instance where you'll work hands-on in the industry-leading CRM technology. You will walk away with a curated collection of Salesforce Trailhead badges to highlight your new skills and knowledge. Weekly, you should expect to spend four to six hours engaging with on-demand content created by industry experts, including activities and assignments in the online learning portal. Additionally, weekly live-online, one-hour, optional but recommended group sessions are available for engaging in real time with peers, experts and mentors.

WHO SHOULD PARTICIPATE?

- Individuals considering a career in a sales-related capacity who want to build new skill sets and gain in-demand Salesforce Trailhead badges
- Early-stage sales or business-focused professionals looking to fill in their knowledge and skills gaps and upgrade long-term growth potential
- Entrepreneurs and small business owners looking to maximize lead, pipeline development and revenue generation

SCHEDULE: Classes start monthly. Please visit our website for schedules.

LOCATION: Online

salesdev.pcs.udel.edu

NONCREDIT CERTIFICATE | ONLINE

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 fully 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. Along with creating a Strategic Sales Operations Playbook to help a real-world company engage with more prospects, produce more pipeline, improve key processes, make the most of its data and generate more revenue, 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 four to six hours engaging with on-demand content created by industry experts, including activities and assignments in the online learning portal. Additionally, weekly live-online, one-hour, optional but recommended group sessions are available for engaging in real time with peers, experts and mentors.

WHO SHOULD PARTICIPATE?

- Recent college graduates considering a role in a sales capacity

- Those aspiring to enter or reenter a sales-related profession and wanting 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: Classes start monthly. Please visit our website for schedules.

LOCATION: Online

salesops.pcs.udel.edu

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 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. As they explore utilizing social media to support organizational goals, students view presentations and materials at their convenience and receive detailed feedback on assigned knowledge checks throughout the self-paced course. They can also schedule a time to meet with the instructor for further discussion.

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: Self-paced class can be started anytime.

LOCATION: Online

PRICE: \$495. *Potential discounts available, including: Military, UD student or alum, 2 or more (group).*

pcs.udel.edu/socialmedia

NONCREDIT COURSES | ONLINE

Self-Paced Programs

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)—\$399
- Agile Certified Practitioner (PMI-ACP)® Exam Prep—\$549
- aPHR™ Exam Prep—\$395
- Certified Global Business Professional (CGBP) Exam Prep—\$799
- Challenges for Agile Teams—\$179
- CISSP® Exam Prep—\$599
- CompTIA Security+® Exam Prep—\$399
- Foundations of Finance Essentials—\$495
- Foundations of Human Resource Management—\$495
- GED® Test Prep Four-Part Bundle—\$99
- Integrating Agile into a Waterfall Environment—\$125
- Introduction to Agile—\$299
- Introduction to Emergency Management in the U.S.—\$249
- Lean Basic—\$299
- Lean Six Sigma Basics—\$799

- LEED® Green Associate V4™ Exam Prep—\$329
- Microsoft® Project Basics—\$99
- Microsoft® Project Intermediate—\$99
- PHR® Exam Prep—\$395
- Principles of Scrum—\$349
- Six Sigma Basics—\$499

Foundations of Business Communication Bundle—\$395

- Communicating Collaboratively—\$99
- Effective Business Writing—\$99
- Effective Emails, Memos and Letters—\$99
- Effective Presentations—\$99
- Effective Public Speaking—\$99

Foundations of Managing Change and Resolving Conflict Bundle—\$695

- Communicating Collaboratively—\$99
- Emotional Intelligence for Managers—\$99
- Handling Difficult Employee Behavior—\$250
- Handling Workplace Conflict—\$99
- Leading and Managing Change—\$99
- Negotiations: Resolving Disputes—\$99
- Foundations of Negotiation Bundle—\$249
- Introduction to Negotiations—\$99
- Negotiations: Making Business Deals—\$99
- Negotiations: Resolving Disputes—\$99

Project Management Professional Development Unit Bundles

- Leadership PDU Bundle—\$299
- Strategic PDU Bundle—\$299

LOCATION: Online

Potential discounts available, including: Bundled rates, Military, UD student or alum, 2 or more (group).

pcs.udel.edu/self-paced

CREDIT CERTIFICATE | ONLINE

Socially Responsible and Sustainable Apparel Business, Graduate Certificate

This graduate credit certificate program addresses cutting-edge labor and environmental issues in the global textiles and fashion apparel industry. Coursework is grounded on the principles of the United Nations (UN) Global Compact. The program

provides the foundation needed to manage international production, sourcing, supply chain, product development and buying in ways that are socially responsible and sustainable.

CONTACT: 302-831-8713

shenglu@udel.edu

fashion.udel.edu/graduate/graduate-certificate

CREDIT DEGREE | ONLINE

Strategic Communication, Master of Arts (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

CREDIT CERTIFICATE | ONLINE

Strategic Communication, Graduate Certificate

This certificate provides professional education and training at the graduate level, focusing on the basic principles of strategic communication; the theoretical background necessary to understand how to create effective public relations, social media and strategic communication campaigns; and the methodological skills required to test and understand the effectiveness of campaigns.

CONTACT: taralynn@udel.edu

DRONE TRAINING

NONCREDIT COURSE | LIVE-ONLINE

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

Are you certified?

Legally flying a drone for commercial use requires a Federal Aviation Administration (FAA) Part 107 remote pilot certificate. Dedicated to serving all aspiring professional drone pilots, UD PCS has prepared over 200 hundred individuals for this valuable certification since the inception of its award-winning program in 2018. During this intensive course, flight instructors provide comprehensive live-online classroom training by addressing regulations, airspace, weather, loading and performance, operations, and other vital topics.

The program can also be presented to groups of any size via private, on-site or live-online delivery.

SCHEDULE: Saturday, November 4, Sunday, November 5 and Saturday, November 11, 2023, 8 a.m.–1 p.m.

LOCATION: Live-online

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

pcs.udel.edu/drones



EDUCATION

CREDIT DEGREE | HYBRID-ONLINE

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

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

CONTACT: asarta@udel.edu
302-831-2559

lerner.udel.edu/programs/masters-programs/economics-and-entrepreneurship-for-educators-ma

CREDIT DEGREE | ONLINE

Educational Technology, Master of Education (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

FREE LIVE-ONLINE INFORMATION SESSION

**Thursday, July 13
7–8 p.m.**



Join us for a live-online information session to learn more about fall 2023 professional development programs, speak with instructors and ask questions about the programs you're interested in.

This session will include programs in Business and IT, Drones, Education, Food and Hospitality, and Healthcare.

Scan code above, see page 13, or visit pcs.udel.edu/info-session for details.

CREDIT DEGREE | ONLINE

Literacy, Master of Education (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

CREDIT DEGREE | ONLINE

Teacher Leadership, Master of Education (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.

CONTACT: karchmer@udel.edu
education.udel.edu/teacherleadership

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.

NONCREDIT COURSE | LIVE-ONLINE

Praxis Core Live-Online and On-Demand Online Test Prep

The Praxis Core Math 5733 Live-Online and Reading and Writing 5713/5723 On-Demand Online Test Prep courses 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

NONCREDIT CERTIFICATE | ONLINE

Instructional Design Certificate

Prepare for growing opportunities in the field of digital and online learning

This online program is designed for anyone who wants to apply instructional design principles to design an effective digital learning experience. It is also for anyone

interested in becoming an instructional designer. The hands-on, applied training method focuses on providing the opportunity to build out a portfolio of instructional design projects. Estimated time to complete the full three-course program is 10 months. The first course, Foundations of Instructional Design, is a prerequisite for continuing with the other two courses in the series.

- **Foundations of Instructional Design** focuses on foundational knowledge for instructional designers, including major learning theory principles applicable to instructional systems design, analysis of learner needs and use of authoring tools. Course starts October 2.
- **Curriculum Development for Instructional Design** focuses on curriculum design, including alignment of learning objectives, practice and assessments, and the evaluation of e-learning modules. This self-paced course is open for enrollment for those who successfully completed Foundations of Instructional Design.
- **E-learning and Course Development for Instructional Design** focuses on developing e-learning modules and applying multimedia design principles, instructional design frameworks, project management for designers, and addressing feedback for continuous improvement. This self-paced course is open for enrollment for those who successfully completed Curriculum Development for Instructional Design.

WHO SHOULD PARTICIPATE?

- Individuals considering a career in instructional design
- Anyone who wants to leverage instructional design principles to design an effective digital learning experience to meet professional or personal goals
- Anyone who wants to learn how to apply multimedia skills

SCHEDULE: October 2–December 1, 2023—
Course 1: Foundations of Instructional Design

LOCATION: Online

PRICE: \$4,995 (3-course series) or \$1,995 per course. **Scholarships and potential discounts available, including Early registration, Military, UD employee, student or alum, 2 or more (group).**

pcs.udel.edu/instructional-design

PROFESSIONAL CERTIFICATION PROGRAM

UD Montessori Teacher Residency (UDMTR)

Looking to build a child-centered, creative learning environment in your school, district or classroom?

The University of Delaware's Montessori teacher training program combines in-school teacher residency with coursework and coaching to provide comprehensive teacher preparation. UDMTR is MACTE-accredited (Montessori Accreditation Council for Teacher Education) for Elementary I and Elementary I/II. Upon successful completion of the program, participants receive a MACTE-accredited diploma. UD's program is relevant for public and independent Montessori schools and teachers interested in training for the Montessori classroom or expanding Montessori opportunities in their schools. UDMTR provides support to existing Montessori schools with coaching and professional development tailored to each school's needs. In partnership with Montessori Works—Delaware, UDMTR supports the development of new Montessori PreK–6 district and charter schools and early childhood programs.

In addition, we are planning a series of professional development programs for teachers and schools. We are proud to be partnering with First State Montessori Academy and Sussex Montessori Charter School. The next teacher cohort launches summer 2024.

pcs.udel.edu/udmtr



ENGINEERING AND SCIENCE

CREDIT CERTIFICATE | ONLINE

Applied Bioinformatics, Graduate Certificate

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 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

CREDIT CERTIFICATE | ONLINE

Biomedical Informatics and Data Science, Graduate Certificate

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 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

CREDIT CERTIFICATE | ONLINE

Composites Manufacturing and Engineering, Graduate Certificate

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
me.udel.edu/academics/graduate/graduate-certificate-in-composites-manufacturing-engineering

CREDIT CERTIFICATE | ONLINE

Cybersecurity, Graduate Certificate

Why study cybersecurity? Whether working in IT, engineering, computer science or even business, almost everything you are likely to work on in your career will need to incorporate security considerations—whether a computer system, a network, an information system or some other product or service. As such, an understanding of security should be part of any technology or business education going forward. In this three-course introduction to the field of cybersecurity, which you can later apply to a master's degree, you will learn key

principles and practices as seen in the real world. Understand CIA (confidentiality, integrity and availability), the NIST Cybersecurity Framework, practical cryptography, hands-on practice evaluating and securing a real computer system (Linux, Windows), and building and configuring defensive systems such as firewalls, intrusion detection systems, VPNs and SIEMs on your own laptop using virtual machine technology, and be able to sift through the millions of daily warnings, of which only a few are a real threat.

CONTACT: 302-831-2406
ece.udel.edu/graduate/cybersecurity-certificate

CREDIT DEGREE | ONLINE

Cybersecurity, Master of Science (M.S.)

Protect your organization from malware and data breaches with career-enhancing education from a National Security Agency (NSA) and Department of Homeland Security (DHS) designated National Center of Academic Excellence in Cyber Defense Education. After seeking input from the U.S. Department of Defense, the U.S. government, the financial services industry and other Fortune 500 corporations, the University of Delaware designed and created a unique and modern program for cybersecurity education. This third-generation cybersecurity education program stresses student hands-on experiences to create lasting reinforcement of the expanding body of knowledge of computer and network security now known as cybersecurity. Learn key cybersecurity principles, how to evaluate and protect systems, and write security software, digital forensics, and applied cryptography from faculty and industry experts. This 10-course program combines security industry best practices, underlying theory such as cryptography, and critical hands-on-keyboard experience to address today's cybersecurity issues as an in-demand specialist.

CONTACT: 302-831-2406
ece-info@udel.edu
online.ece.udel.edu/masters-in-cybersecurity-online/

CREDIT DEGREE | ONLINE

Electrical and Computer Engineering, Master of Science (M.S.)

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 will 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
online.ece.udel.edu/msece-online/

CREDIT DEGREE | ONLINE

Mechanical Engineering, Master of Science (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
me.udel.edu/academics/graduate/msme-online

CREDIT CERTIFICATE | ONLINE

Minerals, Materials and Society, Graduate Certificate

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 programs 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: saleem@udel.edu
sites.udel.edu/ceoe-mms

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 17, 2023, 9 a.m.–4 p.m.

LOCATION: Online webinar

PRICE: \$695, includes electronic file download of course material

ccm.udel.edu/software/mat162/mat162_workshop

CREDIT CERTIFICATE | ONLINE

Railroad Engineering, Graduate Certificate

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
railroadengineering.engr.udel.edu/education/

FOOD AND HOSPITALITY

NONCREDIT CERTIFICATE | LIVE-ONLINE

Foundations of Brewing Science and Brewery Operations

According to the Brewers Association, the record high of 9,118 craft breweries in the United States in 2021 represented a 60% increase from 2016 when there were just 5,713 craft breweries in the country. With the surge of craft breweries showing no signs of slowing down, trained brewers are in high demand.

This course is designed to give participants looking to gain entry into the rapidly growing beer brewing industry, or transition roles within it, practical knowledge and hands-on experience to equip them with an upper hand when pursuing brewery jobs. In addition, it provides a scientific yet fun-filled opportunity for home-brewing hobbyists to elevate their brewing knowledge to the professional level.

Topics include beer styles and guidelines, raw materials (hops, malted barley, yeast, water), hot-side and cold-side brewing operations (with a focus on cellar operations and entry-level work), brewery safety and chemical use, brewing equipment (brewhouse, fermenters, filters), packaging and quality.

WHO SHOULD PARTICIPATE?

- Anyone looking to make brewing a career
- Anyone looking to transition roles in a brewery
- Anyone looking to take their hobby/career to the next level

SCHEDULE: Wednesdays, September 13–November 15, 2023, 7–9 p.m.

LOCATION: Live-online with optional in-person session and beer tasting October 14, 9 a.m.–1 p.m., at 1937 Brewing Company, 777 Delaware Park Blvd., Wilmington, Del.

PRICE: \$1,150

Participants must be at least 21 years old.

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

pcs.udel.edu/brewing

HEALTHCARE/ HEALTH SCIENCES

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 acrpn.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 11–December 18, 2023 (online course with some scheduled requirements and assignments)

PRICE: \$2,295, program materials included. **Payment plan, scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group).**

2.0 Continuing Education Units

pcs.udel.edu/clinical-trials

CREDIT INTERNSHIP | ONLINE

Dietetic Internship

This certificate program provides students with a didactic program in dietetics (DPD) verification statement and a graduate degree with the knowledge and skills necessary to become registered dietitian nutritionists 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/academics/colleges/chs/departments/bhan/graduate-programs/dietetic-internship/

CREDIT CERTIFICATE | HYBRID-ONLINE

Molecular Diagnostics Certificate

This program can be pursued at the post-baccalaureate or graduate certificate level. The program has a hybrid-online plus on-campus format, providing laboratory scientists working in

FREE LIVE-ONLINE INFORMATION SESSION

**Thursday, July 13
7–8 p.m.**

LEARN MORE



Join us for a live-online information session to learn more about fall 2023 professional development programs, speak with instructors and ask questions about the programs you're interested in.

This session will include programs in Business and IT, Drones, Education, Food and Hospitality, and Healthcare.

Scan code above, see page 13, or visit pcs.udel.edu/info-session for details.

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 provides solid preparation for the American Society for Clinical Pathology certification examination, MB(ASCP). The three-course program is comprised of three 14-week online lectures and one weeklong campus-based laboratory practicum.

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

CREDIT DEGREE | ONLINE

Nursing Practice, Doctor of (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. Five concentrations are available in a hybrid-online and on-campus format: adult-gerontology nurse practitioner, adult-gerontology acute care nurse practitioner, family nurse practitioner,

pediatric nurse practitioner, and psychiatric mental health nurse practitioner.

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

NONCREDIT COURSE | ONLINE

RN Refresher Online Program

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 Online Program is designed to help you expand your nursing options.

UD's RN Refresher Online Program includes:

- 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 hospital (optional for nurses with active licenses)
- Learner support available via web, email, phone and fax

SCHEDULE: 15-week didactic component begins August 30, 2023. Clinical component follows and must be completed by March 1, 2024.

PRICE: \$1,295 program fee (early registration discount through July 17, 2023). Textbooks not included; additional fees associated with exam proctoring and clinical component. **Scholarships and potential discounts available, including: Early registration, Military, UD student or alum.**

pcs.udel.edu/rn-refresher

INTERDISCIPLINARY

CREDIT DEGREE | ONLINE

Interdisciplinary Evaluation Science, Master of Science (M.S.)

This fully-online program is designed to train scholars to conduct evaluations that provide credible evidence about the efficiency and effectiveness of interventions, evidence that is used to continually improve programs and inform decisions in the public, nonprofit and for-profit sectors.

CONTACT: giancola@udel.edu
udel.edu/grad/msies

CREDIT CERTIFICATE | ONLINE

Program Evaluation, Graduate Certificate

The 12-credit certificate program is intended to prepare students in the basics of program evaluation across the fields of human services, education, public policy, health and other program and policy areas through thoughtful, effective and ethical use of evaluation models and methods.

CONTACT: giancola@udel.edu
udel.edu/grad/msies

CREDIT CERTIFICATE | ONLINE

Applied Research Methods, Graduate Certificate

The 12-credit certificate program is intended to prepare students in advanced research methods, for the purposes of program and policy evaluation as well as research studies and projects.

CONTACT: giancola@udel.edu
udel.edu/grad/msies

FREE LIVE-ONLINE INFORMATION SESSION

Paralegal Certificate

**Tuesday, July 11
7–8 p.m.**



LEARN MORE
Join us for a live-online information session to learn more about the fall 2023 Paralegal Certificate program, speak with instructors and ask questions.

This session will only include the Paralegal Certificate program.

Scan code above, see page 13, or visit pcs.udel.edu/info-session for details.

LAW

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 44 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 and judges, the program covers the American system of law, court systems and procedures, legal research and writing, and the major branches of law. Students will need a laptop computer for assignments and exams.

EMPLOYERS ARE WAITING FOR YOU!

- Partnership with Delaware Department of Justice.
- Frequent outreach from area firms seeking paralegals from our program.
- 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 28, 2023–August 19, 2024, Mondays/Wednesdays, 6–9 p.m.

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

PRICE: \$3,995, textbooks additional.

Payment plan, scholarships and potential discounts available, including: Early registration, Military, UD student or alum, 2 or more (group), Delaware State Bar Association, Delaware Paralegal Association and Delaware County Paralegal Association.

23.4 Continuing Education Units

pcs.udel.edu/paralegal-institute

PARTNERSHIP DISCOUNTS

Thanks to our partnerships with local legal organizations, employees of the Delaware State Bar Association (DSBA) and its member firms and members of the Delaware Paralegal Association (DPA) and the Delaware County Paralegal Association (DCPA) are eligible to receive a 15% discount when registering.

LIBERAL ARTS

CREDIT DEGREE | ONLINE

Associate in Arts Online

A UD degree is closer than you think!

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

CONTACT: access-advise@udel.edu

302-831-8843

pcs.udel.edu/associate-arts-online/

CREDIT DEGREE | ONLINE/IN-PERSON

Liberal Studies, Master of Arts (MALS)

Interested in additional lifelong learning opportunities? UD's Master of Arts in Liberal Studies (MALS) program is great for intellectually curious adults who want to pursue a degree. 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.

**302-831-4130 • mals.udel.edu
mals-info@udel.edu**

PRE-COLLEGE

UD Credit Courses for High School Students

Individual enrollment in UD credit courses

High school students interested in taking credit courses as Continuing Education Non-Degree (CEND) students are required to schedule an appointment to meet with an ACCESS Center academic advisor (**see page 2**). ACCESS advisors are available to answer questions, offer guidance and assistance with course selection and registration, and provide required forms. 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 in a course.

access-advise@udel.edu or

302-831-8843

pcs.udel.edu/pre-college

UD Dual Enrollment: Earn college credits while still in high school

Through established partnerships with participating high schools, academically qualified juniors and seniors can simultaneously earn high school and

college credits by taking designated University of Delaware courses.

Students can:

- Learn from expert faculty at one of the nation's top research universities.
- Get a head start on college while saving time and money.
- 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 Program. Students may enroll in one or more of the designated online courses 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. (3 credits)

BUAD 100: Introduction to Business

Survey of basic business concepts designed for non-business majors. (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. (3 credits)

NTDT 200: Nutrition Concepts

Functions and sources of nutrients, dietary adequacy, energy balance and metabolism with emphasis on health promotion. (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

Early College Credit Program

Academically qualified juniors and seniors from participating Delaware public, charter and private high schools may take UD general education courses offered through the UD Early College Credit Program at no cost, simultaneously earning both high school and college credit. Students may take a maximum of two courses per semester—four courses per year. Upon successful

completion of courses, students are awarded college credit. For those students who are admitted to UD, these credits will decrease the time to completion and cost of a UD bachelor's degree. Students can also apply UD credit toward degrees at other universities and colleges, pending approval by the receiving institutions.

pcs.udel.edu/early-college-credit-program

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 in person and live-online. **See page 27 for details.**

pcs.udel.edu/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

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



PUBLIC ADMINISTRATION

NONCREDIT CERTIFICATE | HYBRID

Nonprofit Leadership Certificate

Designed for staff and board members of small to mid-sized 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 program or organization while also providing valuable peer-to-peer learning opportunities. Topics include:

- Organizational assessment and strategy
- Financial management
- Fundraising and grant writing
- Strategic technology planning
- Leadership in nonprofit organizations
- Board governance
- HR management, employment law
- Program evaluation
- Volunteer management
- Advocacy
- Marketing
- Conflict resolution
- Leadership succession planning

WHO SHOULD PARTICIPATE?

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

SCHEDULE: Thursdays, August 31–December 14, 2023, 8:30 a.m.–4:30 p.m.

FORMAT: Hybrid. 8 full-day, in-person sessions, 7 half-day, synchronous online sessions and asynchronous content

In-person sessions: 8:30 a.m.–4:30 p.m.
9/7, 9/21, 10/5, 10/19, 11/2, 11/16, 11/30, 12/14
Zoom sessions: 9 a.m.–11:30 a.m.
8/31, 9/14, 9/28, 10/12, 10/26, 11/9, 12/7

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

PRICE: \$2,595. *Discounts and financial options available, including Early registration. Package pricing available for organizations that send more than one person from their leadership team.*

pcs.udel.edu/nonprofit-training

CREDIT DEGREE | ONLINE

Public Administration, Master of (MPA)

This program is designed to help current and aspiring public sector professionals develop their knowledge of urgent societal issues and strengthen their leadership and management 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 program challenges participants to apply best practices of public management to real-world problems while mastering the strategies necessary to effectively shape policy and lead governmental, nonprofit and private sector organizations.

CONTACT: 302-831-1687

bidenschool@udel.edu

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

TEST PREP

NONCREDIT COURSE | LIVE-ONLINE AND IN-CLASS

College Test Preparation Courses

Live-online and in-class 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. These programs are offered in partnership with Educational Testing Consultants (ETC),

TEST PREP FREE STRATEGY SESSIONS

ACT/SAT Strategy Workshop (LIVE-ONLINE)
9–10 p.m.

Wednesday, June 28

Wednesday, August 30

Wednesday, September 27

GMAT Strategy Workshop (LIVE-ONLINE)
9–10 p.m.

Wednesday, August 30

GRE Strategy Workshop (LIVE-ONLINE)
9–10 p.m.

Wednesday, June 28

Wednesday, August 30

Wednesday, September 20

Wednesday, October 4

LSAT Strategy Workshop (LIVE-ONLINE)
9–10 p.m.

Wednesday, August 9

Wednesday, September 13

Wednesday, October 11

Wednesday, November 8

a leader in higher education test preparation.

WHO SHOULD PARTICIPATE?

- Rising high school juniors taking the SAT or ACT for college admission
- 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, Delaware residents.*

LOCATION: Courses offered live-online and in person. See website for details.

pcs.udel.edu/test-prep

ACT

(Multiple live-online offerings)

pcs.udel.edu/sat-test-prep

GRE

(Multiple live-online offerings)

pcs.udel.edu/gre-test-prep

GMAT

(Multiple live-online offerings)

pcs.udel.edu/gre-test-prep

LSAT

(Multiple live-online offerings)

pcs.udel.edu/lsat-test-prep

SAT

(Multiple live-online offerings)

pcs.udel.edu/sat-test-prep

OTHER EXAM PREP OFFERINGS

Praxis

See page 20 for more information.

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



FALL 2023 PROGRAMS AT A GLANCE

Subject	Program	Dates/Time	Location	Price	Delivery Method	Format	Pg. No.
BUSINESS & IT	Advanced Cybersecurity Defense Certificate	Mon./Wed., Sept. 6–Dec. 18	Online	\$2,195	Online	Course	15
	Business Analytics	Classes start monthly	Online	varies	Online	Certificate	14
	Business Essentials			Online	Online	Certificate	14
	Cybersecurity Fundamentals for Practitioners and Managers	Mon./Wed., Sept. 18–Nov. 3	Online	\$1,495	Online	Course	15
	Drone: Ground School & FAA Part 107 Test Prep	Sat. Nov. 4, Sun. Nov. 5, Sat. Nov. 11, 8 a.m.–1 p.m.	Live-online	\$395	Live-online	Course	19
	Foundations of Digital Marketing	Classes start anytime	Online	\$495	Online	Course	15
	Fundamentals of Social Media Marketing	Classes start anytime	Online	\$495	Online	Certificate	17
	Graduate Certificate in Socially Responsible and Sustainable Apparel Business				Online	Certificate	18
	Graduate Certificate in Strategic Communication				Online	Certificate	18
	Microsoft® Excel Essentials	Tues., Sept. 5–Oct. 3, 6–9 p.m.	Live-online	\$495	Live-online	Course	16
	Microsoft® Excel Advanced Concepts	Tues., Oct. 10–Nov. 7, 6–9 p.m.	Live-online	\$495	Live-online	Course	16
	Microsoft Excel® Advanced Reporting and Analytics	Tues., Nov. 14–Dec. 12, 6–9 p.m.	Live-online	\$495	Live-online	Course	16
	Master of Arts in Strategic Communication (M.A.)				Online	Degree	18
	Master of Business Administration (MBA)				Online	Degree	15
	Master of Public Administration (MPA)				Online	Degree	26
	Master of Science in Applied Statistics (M.S.)				Online	Degree	26
	Master of Science in International Business (M.S.)				Online	Degree	15
	Nonprofit Leadership	Tues., Aug. 31–Dec. 14, 8:30 a.m.–4:30 p.m.	Wilmington	\$2,595	In-classroom	Certificate	26
	Project Management	Wed., Sept. 13–Nov. 15, 6–9:30 p.m.	Live-online	\$2,595	Live-online	Certificate	16
	Sales Development Science	Classes start monthly	Online		Online	Certificate	17
	Sales Operations Science	Classes start monthly	Online		Online	Certificate	17
	Self-Paced Programs	Classes start anytime	Online	Various	Online	Course	18
EDUCATION	Instructional Design Certificate	Mon., Oct. 2–Dec. 1	Online	\$1,995 per course	Online	Certificate	20
	M.A. in Economics & Entrepreneurship for Educators				Hybrid-online	Degree	19
	Master of Education in Teacher Leadership				Online	Degree	19
	Master of Education in Educational Technology (M.Ed.)				Online	Degree	19
	Master of Education in Literacy (M.Ed.)				Online	Degree	19
	Montessori Teacher Residency				Hybrid and In-Classroom	Certificate	20

Subject	Program	Dates/Time	Location	Price	Delivery Method	Format	Pg. No.
	Alternative Routes to Teacher Certification (ARTC)				In-class	Course	20
	Praxis: Core Math or Reading & Writing	Visit pcs.udel.edu/praxis-test-prep for details.			Live-online	Course	20
ENGINEERING	Graduate Certificate in Applied Bioinformatics				Online	Certificate	21
	Graduate Certificate in Biomedical Informatics and Data Science				Online	Certificate	21
	Graduate Certificate in Composites Manufacturing and Engineering				Online	Certificate	21
	Graduate Certificate in Cybersecurity				Online	Certificate	21
	Graduate Certificate in Minerals, Materials and Society				Online	Certificate	22
	M.S. in Cybersecurity				Online	Degree	21
	M.S. in Electrical and Computer Engineering				Online	Degree	22
	M.S. in Mechanical Engineering (MSME)				Online	Degree	22
	Progressive Composite Damage Modeling in LS-DYNA Webinar	July 17, 9 a.m.–4 p.m.		\$695	Online	Webinar	22
	Railroad Engineering Certificate				Online	Certificate	22
HOSPITALITY	Foundations of Brewing Science and Brewery Operations	Wed., Sept. 13–Nov. 15, 7–9 p.m.		\$1,150	Live-online	Certificate	22
HEALTHCARE	Clinical Trials Management	Mon., Sept. 11–Dec. 18	Online	\$2,295	Online	Certificate	23
	Doctor of Nursing Practice				Online	Degree	23
	Molecular Diagnostics				Hybrid-online	Certificate	23
	RN Refresher	Starts Aug. 30	Online	\$1,295	Online	Course	24
INTERDISCIPLINARY	Master of Science in Interdisciplinary Evaluation Science				Online	Degree	24
	Graduate Certificate in Program Evaluation				Online	Certificate	24
	Graduate Certificate in Applied Research				Online	Certificate	24
LAW	Paralegal Certificate	Aug. 28, 2023–Aug. 19, 2024	Wilmington	\$3,995	In-classroom	Certificate	24
	LSAT Prep	Multiple live-online offerings	Live-online	\$995	Live-online	Course	27
LIBERAL ARTS	Liberal Arts: Liberal Studies, Master of Arts (MALS)				Online	Degree	25
TEST PREP	ACT Prep	Multiple live-online offerings	Online	\$475	Online	Course	27
	GRE Prep	Multiple live-online offerings	Online	\$895	Online	Course	27
	GMAT Prep	Multiple live-online offerings	Online	\$895	Online	Course	27
	LSAT Prep	Multiple live-online offerings	Online	\$995	Online	Course	27
	SAT Prep	Multiple live-online offerings	Online	\$475	Online	Course	27



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LEARN MORE**



LIVE-ONLINE
PROFESSIONAL DEVELOPMENT
INFORMATION SESSION
JULY 13^{*} AT 7 PM

Paralegal Certificate program Info Session to be held **July 11 at 7 p.m.*

Visit pcs.udel.edu/info-session to RSVP.
A 10% early registration discount is available for most
programs through July 17.

BUSINESS & IT

DRONES

FOOD/HOSPITALITY

HEALTHCARE

LAW *

RSVP NOW!