# Certificate Programs

The University of Connecticut offers several types of certificate programs: post-master’s (or sixth year) certificates, graduate certificates, and post-baccalaureate certificates. Post-master’s/sixth year certificates that require 30 or more credits for completion follow rules and requirements that are similar to those of an equivalent master’s degree (if one exists). Graduate certificate programs consist entirely of graduate courses (those numbered 5000 or above). Post-baccalaureate certificate programs consist primarily of undergraduate courses (those numbered 1000-4999). A certificate can be earned either as a “stand-alone” certificate (without simultaneous enrollment in a degree program) or while simultaneously pursuing a graduate degree. To earn a certificate, students must first apply for admission to a certificate program through The Graduate School. This applies to both external applicants and currently matriculated students who wish to pursue a certificate along with a graduate degree.

### Accounting Fundamentals

Designed for students who do not have an undergraduate degree in Accounting and want to take graduate-level classes to further their proficiency. Graduates from the certificate will have the opportunity to transition into the Master of Science in Accounting. Students must complete 12 credits in required courses.

Required Courses:ACCT 5122, 5124, 5243, and 5260.

### Addiction Sciences

This is a four-course, 12 credit certificate designed to promote an understanding of basic, clinical, epidemiological and policy research on alcohol and other substances. It is intended for a wide array of health professionals, including individuals currently practicing in their professions and those in training for research, program management and clinical careers. The program requires a grade of “B” in all courses.

Required Courses: PUBH 5478, 5479, 5480, and 5481.

### Adult Learning

A program leading to the Sixth-Year Certificate in Adult Learning provides an opportunity for advanced students who have the master's degree to increase their professional competence through further study under the guidance of a faculty member.

The Adult Learning 6th year program in the Department of Educational Leadership prepares individuals to:

1. Identify issues that impact adult learning across a variety of contexts;
2. Critically examine important questions in the field using rigorous research methodologies and methods;
3. Construct theoretical models based on sound empirical research to guide practice and policy;
4. Lead organizations in assessing and meeting learning needs of individual adults, organizations, and communities;
5. Design supportive learning environments and systems;
6. Facilitate learning activities to optimize adult learning;
7. Apply lenses of social justice and organizational change to work in and with complex organizations.

Students must earn at least thirty credits in a planned program of professional education beyond the Master’s Degree, and complete a summary project or a comprehensive exam.

#### Required Core Courses (15 credits): EDLR 5201, 5204, 6313, 6467, 6050.

#### Adult Learning Courses (nine credits minimum):

Tract One courses focus on the Individual Learner. Examples of courses in this tract include: COMM 5101; EDLR 5202; HDFS 5215; PSYC 5251; PSYC 5567.

Tract Two courses focus on Designing Learning Environments. Examples of courses in this tract include: COMM 5650; EPSY 5220, 5520, 5530; PP 5319.

#### Research Courses (six credits minimum): EDCI 6000, 6005; EDLR 6052; EPSY 5605, 5607; Other research courses as appropriate, such as EPSY 5610, 5613, 5621.

### Advanced Business Certificate in Accounting Analytics

Designed for students who are accepted into the Master of Science in Accounting (MSA) degree program, and for students seeking a stand-alone certification. For current MSA students, participation in the certificate is elective. Students in this certificate are interested in supplementing their graduate accounting studies with a skillset, which applies modern analytical methods yielding descriptive, diagnostic, predictive and prescriptive accounting information used for business intelligence.

**Requirements**

Students must successfully complete four of the following six courses for a total of 12 credits: ACCT 5327, 5532, 5554, 5555, 5557, and 5583.

### Advanced Business Certificate in Business Analytics

This certificate is designed for business managers and information professionals who are interested in the role of business analytics in organizations and how data analytics can be applied to help make better business decisions. Students must complete 15 credits.

Required Courses:OPIM 5603, 5604, 5671, and 5272.

Required Electives: One elective from the following list: OPIM 5501, 5502, 5503, 5504, 5505, 5641, or three credits of other OPIM 5000-level coursework with permission of the Department.

### Advanced Business Certificate in Digital Marketing Strategy

The Marketing Department offers an Advanced Business Certificate for business professionals who are interested in careers in the areas of digital marketing and analytics, big data and strategic marketing, marketing research, customer relationship management, and targeted database marketing. Students must complete 18 credits.

Required Courses (12 credits):MKTG 5115\*, 5251, and 5665; OPIM 5603\*\*.

Flexible Marketing Electives (six credits): Two additional 5000-level MKTG electives.

Not all courses are available every semester on every campus.

*\** Prerequisite for all other 5000-level Marketing courses.

\*\*Prerequisite for MKTG 5251 and several Flexible Marketing Electives. Students enrolled prior to the 2018 catalog year may substitute OPIM 5103.

### Advanced Business Certificate in Financial Technology

This certificate is designed to meet the unique needs of experienced professionals, managers, and executives who have significant work experience in their field and want to enhance their skills in Financial Technology (Fintech) and its application in financial services and related industries. Students must complete 12 credits.

**Required Courses:** FNCE 5710, 5711, 5720, and OPIM 5513.

**Required Electives:** One elective from the following list: FNCE 5353, 5712, 5721, OPIM 5603 or 5604. Other courses may be substituted as an elective with the approval of the program director.

The certificate program will be available both in-person and online and can be completed on a full-time or part-time basis.

### Advanced Business Certificate in Health Care Analytics

This program is designed for people who want to use healthcare analytics in the systematic use of data to drive evidenced-based decision making in clinical and business settings. Students must complete 12 credits.

Required Courses:HCMI 5240 and 5243\*; two electives from the following list: OPIM 5604, 5641, 5671, or 5272\*.

\* The Finance prerequisite is waived for this certificate.

This certificate is offered by the School of Business and is not open to students in the M.S. in Business Analytics and Project Management (MSBAPM) program.

### Advanced Business Certificate in Health Care Finance and Insurance

This graduate-level certificate is designed for business professionals who are interested in careers in the area of health care economics, finance and insurance. Students must complete 12 credits.

Required Courses:HCMI 5240 and 5243; two electives from the following list: FNCE 5202; HCMI 5221, 5686, 5687, or 5688.

### Advanced Business Certificate in Human Resource Management

The Advanced Business Certificate in Human Resource Management is an option for graduate business students seeking a concentration in human resources and for current professionals looking for a focused study in human resources. Students must complete 12 credits.

Required Courses:Four electives from the following list: MENT 5138, 5223, 5250, 5377, 5401, 5615, 5639, 5650, 5674, 5676, 5678, 5680, or 5681.

### Advanced Business Certificate in Project Management

This graduate-level certificate is designed for business professionals who wish to enhance their project management skills. Students must complete 12 credits.

Required courses:MENT 5620; OPIM 5270, 5668; one elective from the following list: OPIM 5507 or 5894; (Special topics courses vary, selection must be approved by the OPIM Department Head); three credits of other OPIM 5000-level coursework with permission of the Department.

### Advanced Business Certificate in Supply Chain Analytics

This program is designed for people who want to systematically use data to drive evidenced-based decision making in supply chain management settings. Students must complete 12 credits.

**Required Courses:** OPIM 5110, 5111, 5112, 5113.

### Advanced Materials Characterization

The Institute of Materials Science (IMS) offers a 12-credit fully online certificate program to train engineers in the characterization of advanced materials that are crucial to creativity, innovation and product analysis and quality control in the globally competitive economy. The certificate program builds competency in the analysis of advanced materials systems related to understanding compositions and physical properties of materials, data analysis, sample preparation methods, and basic operation of spectroscopy, chromatography, and microscopy equipment. The program aims to teach scientists and engineers analysis, decision-making, optimization, verification and validation of materials systems.

Required Courses: IMS 5301, 5302, 5303, and 5304.

### Advanced Systems Engineering

The UTC Institute for Advanced Systems Engineering offers a 12-credit fully online certificate program to train engineers in urgently needed cyberphysical systems (CPS) related disciplines that are pivotal to innovation and product enhancement in the globally competitive economy. The certificate program builds competency in analytical systems engineering related to system modeling, uncertainty analysis, and robust design of physical, embedded, and control systems. The program teaches requirements development and analysis, systems architecting, model-based system engineering methods, physics-based modeling and analysis, machine learning, data science, decision-making, optimization, verification and validation of engineered systems.

Required Courses: One introductory course: SE 5000 or 5001; one modeling course: SE 5001, 5101, or 5201; one concentration course: SE 5102, 5202, 5302, 5402, 5702, 5095, or 5502. The required fourth course can be selected from any of the three categories.

### American Studies

As an interdisciplinary field, American Studies is devoted to studying U.S. culture and its relationship to the world beyond its borders. This certificate provides advanced training in this interdiscipline while helping graduate students to become more capacious in their teaching and research. Working toward this certificate will provide junior scholars a space to think outside of their disciplines and to craft a genuinely multi-modal dissertation project.

Required Courses:AMST/HIST 6000/ENGL 6800 and AMST/HIST 6500/ENGL 6850. In addition, the student must also take two courses (six credits) listed outside of their home department or which are explicitly multidisciplinary in focus. “American Studies: Special Topics” may be counted for one of these two courses if taken a second time with a different topic. The American Studies program maintains a list of courses that are pre-approved to satisfy this latter requirement. The director may approve other courses in addition to those that are pre-approved. Total requirements are 12 credits.

### Applied Behavior Analysis

The Graduate Certificate in Behavior Analysis is a seven-course (21-credit) graduate certificate program offered entirely online. It is designed to fulfill the coursework requirements for Board Certification as a Behavior Analyst (BCBA). As such, it targets graduate students, working professionals, and others who are interested in obtaining their BCBA, gaining an in-depth knowledge of Applied Behavior Analysis, or engaging in continuing education. Students must maintain a GPA of 3.0 or higher in each required course.

Required Courses: EPSY 5405, 5461, 5462, 5463, 5464, 5465, and 5469.

*\*This program is not accepting applicants at this time.*

### Arts Leadership and Cultural Management

*Formerly offered as Arts Administration*

The School of Fine Arts offers an online graduate certificate in Arts Leadership and Cultural Management. The certificate comprises four required courses totaling 12 credits that emphasize the critical areas of governance/leadership, budgeting/finance, fundraising, and marketing. The goal of the curriculum is to provide a deep conceptual context for the work of arts organizations coupled with skills for practical application through active online learning. The program incorporates case studies, group work, project-based assignments, and guest lecturers that bring real-world knowledge to the classroom. This program can be completed in 12 months. Classes are non-sequential.

Required Courses:DRAM 5120, 5121, 5122, and 5123.

### Biomedical Science Research Experience

This graduate certificate program allows students with a bachelor’s degree to have a mentored research experience with a faculty member at UConn Health. Enrolled students gain relevant experience that will assist them in determining if a career in research is of interest to them. In addition, this research experience will likely strengthen their application for graduate study at the University of Connecticut or elsewhere. The certificate program is run in conjunction with the Doctor of Philosophy (Ph.D.) in Biomedical Science program. The areas of concentration within these degree programs are the following: Cell Analysis and Modeling, Cell Biology, Genetics and Developmental Biology, Immunology, Molecular Biology and Biochemistry, Neuroscience, and Skeletal Biology and Regeneration.

Requirements: The graduate certificate program conforms to the Graduate School requirements outlined in the Academic Regulations section of this catalog. The specific course of study is tailored to each student depending on their background. Students must complete a total of 12 graduate credits. Each semester, a student will enroll in MEDS 6496 for up to five credits and a one credit graduate seminar specific to their associated area of concentration. In addition, depending on individual needs, the student may enroll in one additional graduate level course each semester. All students in the certificate program must take MEDS 5310, unless the advisory committee approves an equivalent course or training experience.

### Bridge Engineering

The Civil and Environmental Engineering Department offers a 12-credit certificate program to train engineers on the design and construction of bridge structures. The certificate program builds competency in steel and prestressed concrete bridge design, accelerated bridge construction and design related to extreme events.

Required Courses: Students are required to take the following core courses: CE 5380, 5383, 5384 and 5640.

### Clinical and Translational Research

The certificate program is administered by the Connecticut Convergence Institute for Translation in Regenerative Engineering at the University of Connecticut. It is designed to provide an introduction to clinical and translational research. The program provides core competencies in research methods without hands on experience in mentored research. Qualified applicants include individuals who have obtained a health-related terminal degree (for example, M.D., Ph.D., Pharm.D., D.D.S., or D.M.D.). Students who do not have an established terminal degree must be accepted by the program and be in good standing in a terminal degree granting program in a health-related field.

Requirements:Nine credits of coursework. The required courses are outlined below. The program’s executive committee may approve substitution of a comparable graduate course(s) for CLTR 5020.

Required Courses:CLTR 5020, 5357, and 5359.

### Clinical Genetics and Genomics

The graduate certificate program in Clinical Genetics and Genomics is a four-course, twelve-credit, online graduate certificate program. The program provides foundational knowledge in clinical genetics and genomics and is designed for individuals who possess a bachelor’s degree and who wish to enter the exciting and growing profession of clinical genetics. It is also designed for individuals already practicing in the health care field but are interested in gaining an academic foundation to improve work performance and/or enhance their professional advancement. Admission to the graduate program in Clinical Genetics and Genomics requires completion of an undergraduate degree in science, or related health and science fields. Completion of this certificate program does not qualify a student for eligibility to sit for the American Board of Genetic Counseling certification examination.

Required Courses: ISG 5100, 5101, 5102, and 5103. Course substitutions may be made with prior approval from Program Director.

### Cognitive Science

UConn Ph.D. students seeking a deeper, more interdisciplinary understanding of how people perceive, act, know, and think are invited to apply. Working professionals and others looking to change careers or augment their current career trajectory through the interdisciplinary study of Cognitive Science can complete the certificate program on a full-time or part-time basis. Students must complete 12 credits.

Required Course: COGS 5001.

Required Electives: Students design an individualized plan of study in consultation with their advisory committee and the Certificate advisor (Program Director). The three electives need to be from at least two academic departments/divisions outside their home department. Please refer to the program website for the most up-to-date course listings.

### College Instruction

Effective teaching in undergraduate and graduate classrooms is becoming an increasingly important consideration in hiring faculty. The Graduate Certificate in College Instruction (GCCI) is intended for students interested in deepening their theoretical and practical understanding of college teaching and in preparing for employment in higher education. The certificate provides learners the foundations of higher education pedagogy, opportunities to develop a teaching philosophy and approach, and an exploration of a variety of instructional techniques and classroom management strategies in college settings.

Required Courses:Students with instructional experience must complete GRAD 6000 and 6001. Students without instructional experience must complete: GRAD 6000, 6001 and 6004. In addition, all students must take a minimum of six elective credits which explicitly focus on some aspect of instruction in higher education. The GCCI Program maintains a list of courses that are preapproved to satisfy this latter requirement. The Director may approve other courses in addition to those that are preapproved. In general, electives applied to another plan of study (Master of Arts or Doctor of Philosophy) cannot be used for the GCCI.

### Composites

The Mechanical Engineering Department and Materials Science and Engineering Department at the University of Connecticut in collaboration with industry partners offer a 12 credit certificate program for practicing engineers who want to pursue advanced education on composite materials and structures. This program boosts students’ overall composites proficiency, with curriculum focused on the fundamentals of composites combined with practical skills and hands on exercises. Students gain the necessary depth of study for a thorough understanding of modern composite technologies.

Required Courses:ME 5430 and 5442.

### Required Electives: Two of the following courses: ME 5443, 5522; MSE 5135, 5364, 5380, 5787.

### Contaminated Site Remediation

The Civil and Environmental Engineering Department offers a 12-credit certificate program in Contaminated Site Remediation. The courses provide the necessary knowledge at an advanced level to engage in the design of contaminated site investigation, remediation and redevelopment. Students learn to use appropriate tools for the planning of subsurface investigations and design waste containment systems, and to apply fundamental physical, chemical and biological principles of soil and groundwater treatment methods in the context of the appropriate regulatory framework.

Required Courses:ENVE 5210, 5252, and 5530; one elective course: ENGR 5312, 5314; ENVE 5240, 5310, 5311, 5320, 5821, or 5830.

### Corporate and Regulatory Compliance

This certificate is designed for business professionals who are interested in careers in compliance, ethics, internal monitoring, regulatory affairs, and related areas. Students must complete 12 credits.

Required Courses for current MBA and post-baccalaureate students: BLAW 5175, 5750; LAW 7554, 7553.

Required Courses for current JD and JD-degree holders:BLAW 5750; LAW 7553, 7554, and at least three credits from the following list: ACCT 5121; BLAW 5220, 5660, 5680; LAW 7650, 7673, 7675, 7677, 7717, 7724, 7737, 7755, 7773, 7844, 7962; MENT 5138, 5223\*, OPIM 5165, 5771\*, or 5604\*\*.

\* By permission of instructor.

\*\* By permission of instructor; formal background in statistics required.

### Culture, Health and Human Development

The Graduate Certificate in Culture, Health and Human Development (CHHD) is administered through the Center for the Study of Culture, Health and Human Development, located in the Department of Human Development and Family Sciences (HDFS), in conjunction with affiliated faculty from several departments including Psychology, Allied Health Sciences, Pediatrics, Public Health, and HDFS.

Required Courses:HDFS 5020 and 5030.

In addition, students must take two additional courses chosen to complement each student’s particular interests and background (which may be courses that the student takes as part of their regular program or for other reasons) and complete a research study of publishable quality (which generally will be carried out in the context of HDFS 5030). CHHD projects are individually developed and supervised in consultation with the student’s own major advisor and the CHHD co-directors.

### Curriculum and Instruction

#### Sixth-Year Certificate in Bilingual and Multicultural Education, Literacy Specialist Program, Elementary Education, or Secondary Education (English, World Language, History and Social Studies, Mathematics, and Science)

The plan of study is structured to continue the academic preparation of experienced and qualified educational leaders, supervisors, and master teachers in their areas of specialization. The Curriculum and Instruction Department offers Sixth-Year Certificates in Bilingual and Multicultural Education, Literacy Specialist Program, Elementary Education, and Secondary Education with concentrations in English Education, World Language Education, History and Social Studies Education, Mathematics Education, and Science Education. (The Department also offers Sixth-Year Certificates in Reading and Language Arts Consultant, Remedial Reading and Language Teacher, which are described below.) The Sixth-Year Certificate provides advanced graduate students an opportunity to increase their professional competence by pursuing a course of study beyond the Master’s degree under the guidance of a faculty member in Education, Curriculum, and Instruction (EDCI). The program is structured to continue the academic preparation of experienced and qualified educational leaders, supervisors, and master teachers in their areas of specialization.

**Requirements.** The Sixth-Year Certificate requires satisfactory completion of at least 30 credit hours in a planned program of professional education beyond the Master’s degree. Students must maintain at least a “B” average. The plan of study is individualized and designed by the student with the advisor to reflect the student’s stated objectives and field of concentration. Courses are drawn from EDCI, EPSY, EDLR and fields beyond Education as determined appropriate by the advisor. A course taken previously as part of the student’s Master’s degree program may be re-taken and included in the plan of study if 10 years have lapsed since it was originally taken. If certification is a goal (e.g., certification as a Reading Consultant), the student follows the recommended plan developed to account for the State’s certification requirements. Required courses and electives will be identified based on a review of the student’s transcript and the state requirements. Students must also fulfill the requirement of a comprehensive, written examination established by the student’s advisor. This may include an oral component (optional) and is submitted to Degree Audit in the Office of the Registrar.

#### Sixth-Year Certificate in Reading and Language Arts Consultant or Remedial Reading and Language Teacher

The plan of study is structured to continue the academic preparation of experienced and qualified educational leaders, supervisors, and master teachers in their areas of specialization. The Sixth-Year Certificate provides advanced graduate students an opportunity to increase their professional competence by pursuing a course of study beyond the Master’s degree under the guidance of a faculty member in Education, Curriculum, and Instruction (EDCI). The Certificate may provide a vehicle, as appropriate, for the fulfillment of certification requirements for several areas (e.g., Reading Specialist at the Teacher and/or Consultant levels). The plan of study is individualized and designed by the student with the advisor to reflect the student’s stated objectives and field of concentration. Required courses and electives will be planned by the advisor and student to fulfill the student’s individual objectives. If certification is a goal (e.g., certification as a Reading Consultant), the student follows the recommended plan developed to account for the State’s certification requirements. Reading education professors/advisors will review these certification requirements with the student and advise appropriate course work to fulfill state requirements. Required courses and electives will be identified based on a review of the student’s transcript and the state requirements. Students are advised to contact an advisor to initiate planning; a transcript will be necessary to complete this process.

**Sixth-Year Certificate General Requirements.** For all Sixth-Year Certificates in Professional Education, students must earn at least 30 credits in a planned program of professional education beyond the Master’s degree. Courses are drawn from EDCI, EPSY, EDLR and fields beyond Education as determined appropriate by the advisor. A course taken previously as part of the student’s Master’s degree program may be retaken and included in the plan of study if 10 years have lapsed since it was originally taken. Students must pass a comprehensive, written examination. There may also be an oral component (optional).

**Remedial Reading and Language Arts Teacher Required Course:** Six credits of EDCI 5155.

**Remedial Reading and Language Arts Teacher Electives.** Selections are based on the student’s transcript and prior course work. The following are possible suggestions: three credits of EDCI 5099; three credits of EDCI 5100, 5125, or EDCI 5115; and three credits of EDCI 5105 or 5110. Three credits of EDCI 5135 or 5125; three credits of EDCI 5140; three credits of EDCI 5130 or 5250; six credits of EDCI 5145 and 5150 (EDCI 5120 if approved by the advisor); EPSY 5108; related courses in language and/or literacy, curriculum, educational psychology, or educational leadership (EDCI, EPSY, EDLR); Culminating Requirement is the Portfolio/Exam.

**Reading and Language Arts Consultant Required Courses:** EDCI 5092 for six credits; and EDCI 5160.

**Reading and Language Arts Consultant Electives.** Selections are based on the student’s transcript and prior course work. The following are possible suggestions: six credits of EDCI 5100, 5105, 5110, 5115, EDCI 5125; three credits of EDCI 5135, or 5125; EDCI 5140; three credits of EDCI 5130, or 5250; six credits of EDCI 5145, 5150, 5120; six credits of EDCI 5155; three credits of EPSY 5108; three credits of EDCI 5099; related courses in language and/or literacy, curriculum, educational psychology, educational leadership (EDCI, EPSY, EDLR); Culminating Requirement is the Portfolio/Exam.

### Dementia Care

The 12-credit Dementia Care Graduate Certificate addresses an existing and growing market need to prepare nurses and other healthcare professionals on essential theories, concepts and skills for healthcare coordination of patients and caregivers affected by Alzheimer's Disease and Related Dementias (ADRDs). The Dementia Care Certificate offered through the UConn School of Nursing is designed to educate healthcare professionals and administrators for the common goal of improving care outcomes and quality of life for patients with ADRDs and their caregivers with a focus on culturally responsive and patient and family centered care principles. The knowledge learned through this program is valuable to nurses and healthcare professionals who are involved in the management of direct patient care and care coordination of patients with ADRDs. This certificate is offered entirely online. Required courses: NURS 5108 (one credit to be taken first), NURS 5105 (three credits), NURS 5106 (four credits), and NURS 5107 (four credits).

### Diagnostic Genetic Sciences

The Diagnostic Genetic Sciences (DGS) certificate program is a two-year educational and clinical post-baccalaureate training program in genetic and genomic testing. It is open to individuals with a bachelor’s degree in the biological, laboratory or natural sciences, and who meet the specific course prerequisites and academic standards. Genetic and genomic testing information is used for screening, diagnosing, prognosticating and monitoring many human diseases. Diagnostic genetic scientists are credentialed professionals critical to the research, application and translation of genetics and genomics to personalized or precision medicine. Students in the DGS professional certificate program complete requirements for diagnostic molecular sciences which is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) (5600 N. River Rd, Suite 70, Rosemont IL 60018-5119; 773-714-8880). The DGS curriculum includes on-campus didactic and laboratory coursework and an off-site clinical and research internship at an affiliated laboratory. Graduates are eligible to sit for the American Society for Clinical Pathology (ASCP) Board of Certification examination in molecular biology (MB) immediately upon graduation.

Required courses: AH 2001, 3021, 3121, 4241; DGS 3100, 4234, 4235, 4236; MLSC 4500; four related cognates 2000 level or above as approved by their DGS advisor; totaling 33 credits.

Required Practicum Courses:DGS 4402, 4503, 4604, 4850; and one of the following DGS 4510, 4512, 4513, 4515.

Clinical Experiences.All students are required to complete a four-month clinical affiliation as a part of the required curriculum. Students are placed in sites for which a valid agreement with the University exists at the time of the placement decision. Travel for internship interviews is required and relocation may be necessary for the final semester.

### Digital Humanities and Media Studies

As an interdisciplinary field, DHMS is devoted to studying the interrelationship of digital humanities and media studies within the student’s home discipline. The certificate prepares students to conduct research with digital tools by providing knowledge about same tools, about methods, and about theoretical issues central to the numerous and rich interfaces between digital humanities and media studies. These may include text analysis, data mining, visualization, modeling and simulation, geo-spatial inquiries and mapping, multi-media or digital storytelling, information or knowledge design, network analysis, and interface design in combination with the history of media, media archeology, media aesthetics, media theory, media philosophy, electronic literature, digital cultures and game studies. The certificate as a course of study emphasizes principles and concepts that will transfer across software programs, tools, and disciplines. It also acknowledges that ever new technologies will emerge and that they are accompanied by questions about the history of technology and media in general and about how we use and integrate such technologies into our cultures and everyday practices. This certificate provides advanced training in this interdiscipline while helping graduate students to become more capacious in their teaching and research. Working toward this certificate will provide junior scholars a space to think outside of their disciplines and to craft, among other digital scholarship formats, a genuinely multimodal or born-digital dissertation project.

Requirements:Students must take one of the following core courses: DMD 5610; ENGL 5650; or LCL 5020.

In addition, the student must also take three courses (nine credits) listed inside or outside of their home department with a focus on digital or media studies. DHMS maintains a list of courses across campus that may satisfy the nine credit requirement above. The director, in conjunction with the student’s advisor, may approve other courses in addition to those that are pre-approved. Total requirements are 12 credits.

### Digital Media and Design

The Online Graduate Certificatein Digital Media and Design is a four-course, 12-credit program that mixes theory with experiential learning. The program is designed for professionals, or those with a desire to pivot to a career in digital media. It provides a foundation of skills and knowledge in digital marketing applications for businesses and organizations in four key areas; design, web development, digital media strategies and digital analytics. It is designed for college graduates working or hoping to work in the areas of advertising, communications, marketing, creative design and media, as well as for graduates from programs in Communication, Social Sciences, Marketing, Business, Engineering, Sciences, the Arts and other related disciplines who are interested in expanding their digital skills.

Required Courses: Taken in sequential order, beginning with two courses taken in the summer semester DMD 5000 and 5070; DMD 5700 in the fall semester; DMD 5720 in the spring semester.

### Disability Studies in Public Health

This is a four-course, 12 credit certificate examining the aspects of health care, society, culture, politics, economics, legislation education and social attitudes that impact people living with disabilities. The Certificate in Disability Studies in Public Health is offered online. It is intended for individuals working in medicine, nursing, social work, law, education and public advocacy. The program requires a grade of “B” in all courses.

Required Courses:PUBH 5501, 5502, 5503, and 5504.

### Educating Bilingual Learners

The graduate certificate in Educating Bilingual Learners is a 12-credit program intended for educators who are interested in better supporting English learners in schools, such as classroom teachers, literacy specialists, special education teachers, school psychologists, administrators, and others. The program consists of four online courses.

Required Courses:EDCI 5742, 5750, 5875, and 5890.

### Educational AdministrationUniversity of Connecticut Administrator Preparation Program (UCAPP)

The Sixth-Year Certificate Program in Educational Administration, University of Connecticut Administrator Preparation Program (UCAPP) is an administrator certification program. Graduates are eligible for endorsement for Intermediate Administrator (092) certification.

**Year One, Summer Required Courses:**two credits of EDLR 5401; two credits of EDLR 5402.

**Year One, Fall Required Courses:** two credits of EDLR 5403; two credits of EDLR 5404; one credit of EDLR 5092.

**Year One, Spring Required Courses:** two credits of EDLR 5405; two credits of EDLR 5406; one credit of EDLR 5092.

**Year Two, Summer Required Course:** two credits of EDLR 5407; three credits of EDLR 5408; one credit of EDLR 5092.

**Year Two, Fall Required Courses:** two credits of EDLR 5409; two credits of EDLR 5410; one credit of EDLR 5092.

**Year Two, Spring Required Courses:** two credits of EDLR 5411; two credits of EDLR 5412; one credit of EDLR 5092.

### Educational Psychology

The Sixth Year Certificate in Educational Psychology can be earned in any one of the following areas of concentration: (1) Learning Sciences (LS), (2) Counseling, (3) Educational Technology, (4) Giftedness, Creativity and Talent Development, (5) School Psychology, and (6) Special Education.

#### Learning Sciences (LS)

The Learning Sciences program approaches learning and instruction from an applied view of the Learning Sciences. It aims to prepare scholars and practitioners who are well versed in different perspectives on teaching and learning and capable of critically evaluating the effectiveness of instructional technologies and techniques across different populations and contexts (including virtual, traditional face-to-face, and blended). Applicants for the Sixth-Year must hold a Master’s degree in a related area.

**Sixth-Year Certificate Requirements.** The Sixth-Year Certificate requirements in LS conform to the Graduate School requirements. Specific programmatic requirements and course sequences are described below. The Certificate in LS requires a minimum of 30 credits comprised of core (see below) and elective courses. The Certificate requires a plan of coursework created with the student’s primary advisor and advising committee, followed by comprehensive examinations. The list below represents courses typically included in the plan of study for the LS Certificate. Waivers and substitutions for these courses are allowed with approval from the student’s primary advisor and advising committee.

**Core Courses:** EPSY 5605, 5607, 5510, 5601, 5602, 5220, 5515, 5530, 5520.

#### Counseling

The Sixth-Year Counseling Program is designed for those students whom have already completed a Master’s degree in a field of study not related to school counseling. These students complete the same sequence of courses and performance criteria as in the School Counseling Master’s Program, but are awarded the Sixth-Year Certificate.

**Practicum.**Students complete supervised counseling practicum experiences that total a minimum of 100 clock hours over a full academic term that is a minimum of 10 weeks.

**Internship.** School counseling students complete a supervised internship. As of December 1, 2017, the Connecticut State Department of Education will accept a minimum of 700 clock hours of internship over 10 school months to fulfill this requirement.

**Final Examination.** Students must pass a Comprehensive Exam in order to graduate from the University of Connecticut, School Counseling Program. The National Counselor Exam (NCE) is optional, and required only if students want to become a Nationally Certified Counselor and/or a Nationally Certified School Counselor.

**Required Courses. S**tudents in the Sixth-Year Counseling programs must complete all of the following courses with a grade of “B” or better: EPSY 5108, 5195, 5301, 5304, 5306, 5307, 5308, 5314, 5315, 5316, 5317, 5318, 5319, 5320, 5406, 5601.

#### Educational Technology

The Department of Educational Psychology offers a Sixth-Year Certificate program in Educational Technology, featuring the Two Summers Sixth-Year Certificate online option and campus-based programs. The graduate program in Educational Technology prepares educators to put theory into practice in service to the wise integration of technology in formal and informal learning environments. Applicants for the Sixth-Year must hold a Master’s degree in a related area.

**Requirements.** The Sixth-Year Certificate in Educational Technology requires 30 credits. For the “Two Summers Sixth-Year Certificate” online option, students work in a cohort program to fulfill the program requirements.

**Two Summers Requirements:** EPSY 5198, 5215, 5220, 5225, 5235, 5245, 5339, 5510, 5520, 5601.

#### Giftedness, Creativity, and Talent Development

The Sixth-Year Certificate in professional education is for students who have already earned a Master’s degree and wish to pursue further education in the area of Giftedness, Creativity, and Talent Development. The Sixth-Year Certificate program mirrors the Master of Arts (M.A.) degree and prepares individuals for specialization in teaching in gifted and talented programs, as well as for leadership roles in creativity and gifted education as program coordinators, curriculum development specialists, and regional or state gifted education agency directors. The program of study includes coursework on strategies and program models for developing student talent and field experiences in school settings.

**Requirements.** The Sixth-Year Certificate requirements in Giftedness, Creativity, and Talent Development conform to the requirements of the Graduate School and the Department of Educational Psychology. Specific course requirements include those listed below as well as requirements determined by the student’s major advisor and program faculty consistent with the minimum requirements. The Sixth-Year Certificate requires satisfactory completion of at least 30 credits maintaining at least a “B” average. The required courses include those listed below; the remaining credit hours come from elective courses approved by the student’s major advisor.

**Required Courses:** EPSY 5092, 5194, 5601, 5710, 5720, 5740, 5750, 5760, 5780.

**Required Examinations.** Students must complete required computer-based examinations near the completion of their required coursework. Passing scores on the examinations are required for certificate completion.

#### School Psychology

The Sixth-Year Certificate program is designed to prepare qualified school psychologists to practice in public schools or related educational settings. The program is accredited by the Connecticut State Board of Education and is approved by the National Association of School Psychologists and the National Council for Accreditation of Teacher Education (NCATE). It requires a student to already hold a Master’s degree in School Psychology or related area. The Sixth-Year Certificate in School Psychology requires 45 credits beyond those required for the Master’s degree, including practica and internship. In addition to the courses required for the Master of Arts (M.A.) in School Psychology, described separately, to receive the Sixth-Year Certificate in School Psychology, students must satisfactorily complete the required courses listed below.

**Required Courses:** EPSY 5194 (when offered as Academic Intervention), 5405, 5406, 5408, 5425, 5440, 5445, 5450; EPSY 5092 for three semester hours per semester, for two semesters, for a total of six semester hours beyond the M.A. practicum; EPSY 5491 School Psychology Internship for 6-12 semester hours per semester, for two semesters.

**Portfolio Requirement.**Prior to doing the required internship, students must prepare a pre-internship portfolio, which consists of work samples completed throughout the program in coursework and practica, professional documents, practicum and self-evaluations, and other relevant program-related documents.

**Examination Requirement*.*** Students are also required to take the Praxis Series - School Psychologist (code 5402), which is administered by the Educational Testing Service. Students take the examination after admission to the Sixth-Year program; after completing approximately 42 hours of their coursework in the combined Master's/Sixth-Year program; and prior to beginning their internship.

**Practica Requirements.** Students are required to complete practicum experiences in a school or related educational setting. The practica sequence was developed in accordance with American Psychological Association (APA) and National Association of School Psychologists (NASP) guidelines that require planned supervised experiences that include direct service and formally scheduled supervision. This requirement is met through the EPSY 5092 requirement included in the coursework list above.

**Internship Requirements**. Students are also required to satisfactorily complete an internship. The internship in school psychology complies with American Psychological Association (APA) and National Association of School Psychologists (NASP) standards. It is designed to enhance the development of competencies and professionalism and to be the culminating experience in the student’s program. To be eligible for the internship, the student must have met all the requirements prior to signing any contract or internship agreement with an internship site.

#### Special Education

The Sixth-Year program in Special Education is designed for a broad range of professionals (e.g., general or special education teachers, graduates in related fields) to provide in-depth learning and experiences related to supporting children and adults with disabilities and at risk for learning and behavioral difficulties. This program provides advanced study in three areas: Literacy Supports for Students at Risk for Learning Difficulties; School-wide Positive Behavior Supports (SWPBS); and Transition and Postsecondary Supports. Students also may design an individualized plan of study with the approval of their advisor. Students completing the Sixth-Year program develop an individualized plan of study that includes at least 30 credits in special education and related areas.

### Emerging Women's Leadership

The Emerging Women’s Leadership graduate certificate program is a 12-credit online program designed to educate and prepare emerging leaders concerned with gender inequality and gender barriers in the workplace to serve as catalysts for change in their field of choice through the translation of leadership theory to practice. Taking an intersectional approach, students of all identities who seek gender equality in society are immersed in a practicum leadership experience for the duration of the program, providing an organizational context for the application of theory and the development of a capstone project that addresses a problem of practice. The program consists of four online courses.

**Required Courses:**

* **Semester 1:** EDLR 6464; EDLR 6092 (three credits)
* **Semester 2:** EDLR 5343; EDLR 6092 (three credits)

### Engineering Data Sciences

The Computer Science and Engineering Department offers a 12-credit certificate program to train engineers on the design of advanced techniques to analyze different kinds of engineering data. The certificate program will build competency in the art of visualizing data and communicating technical ideas through data visualization, as well as competency in data mining, artificial intelligence and machine learning algorithms.

Required Courses: CSE 5520, 5713, 5717, and 5819.

### Executive Leadership Program

The Department of Educational Leadership offers the Executive Leadership Program (ELP), which is designed to provide aspiring individuals outstanding preparation for assuming a school superintendency and other central office positions. This cohort-based program is completed within 12-13 months and meets on dates designed to accommodate working professionals. This is a non-degree program that leads to endorsement for the Connecticut 093 (superintendency) certificate. Selected courses are eligible for transfer to UConn’s Doctor of Education (Ed.D.) program with the approval of the student’s advisory committee.

Required Courses:Students must complete the following five three-credit courses, which include a two-semester internship with an experienced ELP Mentor Superintendent: EDLR 6301, 6302, 6303, 6304, and 6092 (both semesters).

### Exercise Prescription

The graduate certificate program in Exercise Prescription is a four-course, twelve-credit, online graduate certificate program. The program provides advanced knowledge in exercise prescription for individuals working in healthcare, personal training, fitness and kinesiology industries. Admission to the graduate program in Exercise Prescription requires completion of an undergraduate degree in exercise science, or related health and science fields. Please contact the Department of Kinesiology or visit www.kins.uconn.edu/ for instructions on how to apply.

Requirements: **KINS 5507, 5508, 5594, 5595.** KINS 5507 and KINS 5594 need to be completed before KINS 5508.

### Foundations of Public Health

This is a four-course, 12 credit certificate introducing students to the core disciplines of public health. It is intended for persons seeking to augment their knowledge and perspective with in-depth understanding of issues and opportunities in population health. The program requires a grade of “B” in all courses.

Required Courses: PUBH 5408 and 5409.

Selective Courses: Two of the following: PUBH 5403, 5404, 5405, or 5406.

### Geographic Information Systems

The Certificate Program is designed to recognize completion of a focused set of courses for graduate students and professionals seeking expertise in the field of Geographic Information Systems (GIS). GIS are used for integrating and analyzing spatial data. These systems, and the science behind their development and use, are the topics covered in the required coursework. The Certificate Program requires a minimum of 12 credits.

Required Courses: GEOG 5500 and 5510; plus additional courses in Geography or a related field taken at the graduate 5000 or 6000 level.

A student’s program of study for the certificate may include only one completion of GEOG 5810. Students develop a program of study with the assistance and approval of the Certificate Program Coordinator. Students must pass all courses with a grade of “B” or better and have an overall grade point average for the 12 credits of 3.0 or greater. All coursework for the certificate must be completed at the University of Connecticut.

### Genomic Data Analysis

The Certificate in Genomic Data Analysis is designed to develop skills in the analysis of high throughput genomic data. Genomics is a rapidly growing field with applications in government, industrial and academic settings, and this certificate trains students in practical skills useful to extract and communicate insight from large genomic datasets. Students must complete 12 credits over two semesters.

**Required Courses:**

* **First Semester:** ISG 5301 and 5311;
* **Second Semester:** ISG 5302 and 5312.

### Gifted Education and Talent Development

The graduate certificate in Gifted Education and Talent Development is a 12 credit program intended for educators and others interested in supporting talented development in young people. The program can be completed in one year through a series of four online courses. The graduate certificate requires successful completion of four three-credit courses.

Required Courses:EPSY 5710, 5740, 5760, and 5780.

### Global Health

The Global Health certificate is a 12-credit graduate certificate in interdisciplinary global health offered through the Institute for Collaboration on Health, Intervention, and Policy (InCHIP) in partnership with Global Affairs.

The certificate recognizes the interdisciplinary nature of global health and offers students concentrated exposure to foundational concepts, opportunities to dive deeper into an area of interest, and exploration of interdisciplinary methodological concepts. The certificate program also recognizes that global health encompasses not only international contexts, but also local health, and more importantly how ‘local’ and ‘global’ health influence each other. No prior experience with, or knowledge of global health is required, but prior coursework in statistics, epidemiology and/or research methods may be helpful.

**Requirements:** Students are required to take CHIP 5100, plus three additional elective courses (three credits each) chosen from the courses listed below, as approved by the Global Health Graduate Certificate Committee. Students are allowed, but not required, to take one elective course in their home department and one course listed in the Foundational Courses category. The certificate requires completing all four courses while maintaining a GPA of 3.0 or higher in each required course.

**Electives courses:**

Foundational Courses (limited to one from this category): AH 5501; ANTH 5377; PUBH 5462

Culture and Health: HDFS 5020

Infectious Diseases: PSYC 5711

Health as a Human Right: ANTH 5305; PUBH 5201, 5451, 5460; SWEL 5385

Sustainability: ARE 5305; AH 5505

Healthcare and Systems: PUBH 5463

Methods and Data Analytics: AH 6310; ARE 5311, 5203, 5353; GEOG 5500, 5530; HDFS 5004

### Global Risk Management

This is an online graduate-level certificate program designed for working professionals looking to advance their careers or for career changers, and recent graduates interested in obtaining a certificate to validate their skills and commitment to the highest standard of professionalism and best practices within the risk management profession. Students must complete 12 credits.

Required Courses: FNCE 5894 when taught as the following three credit seminars: Risk Management Structures, Credit Risk Management, Market Risk Analysis, and Operational Risk Management.

### Health Care Innovation

The 12-credit Health Care Innovation Certificate Program addresses an existing and growing market need to educate nurses, health care professionals, and others interested in healthcare on essential theories, concepts and applications within the domain of innovation for the health care industry. The Health Care Innovation Certificate offered through the UConn School of Nursing is designed to educate individuals in nursing and beyond for the common goal of introducing positive and necessary change to the health care industry. The knowledge learned through this program is valuable to nurses, all health care professional role groups and those who are in need of this knowledge in the context of health care to understand existing opportunities and refine existing ideas. This certificate is offered entirely online.

**Required Courses:** NURS 5111, 5112, 5113, and 5114.

### Health Professions Education

Open to nurses and other health care professionals (e.g., physicians and pharmacists) with a master’s or doctoral degree, this nine-credit online certificate program with a synchronous discussion component is designed for professionals with an interest in teaching and/or leadership with responsibilities for educational activities. The program includes courses that address evaluation (three-credits), planning (three-credits), and implementation (three-credits), providing participants with a solid foundation on the basics of these areas. Required Courses: NURS 5700, 5710, and 5720.

### Health Promotion and Health Education

The Certificate in Health Promotion and Health Education (HPHE) is a one-year comprehensive program that encompasses health promotion, health education, nutrition and community health, and environmental health and is designed for individuals interested in pursuing certification in health promotion and education.\* A certified health educator specialist is a competent professional committed to continued development in the field of health education and health promotion. These individuals design, conduct and evaluate activities in a variety of settings to improve the health of all people. Certified health educators may pursue employment as patient educators, health education teachers, health coaches, community organizers, public health educators, and health program managers. Individuals who successfully complete the Allied Health Graduate Certificate in HPHE are eligible to take the Certified Health Education Specialists (CHES) examination administered by the National Commission for Health Education Credentialing Inc. (NCHEC).

Requirements.The student develops a plan of study with the assistance and approval of the Allied Health Graduate Certificate Program Coordinator. Core competency course work completed at another institution or in another department within the University of Connecticut may apply toward a student's Graduate Certificate in HPHE plan of study with the approval of Allied Health Certificate Program Coordinator. However, a minimum of 12 credits in health promotion and health education must be completed within the Department of Allied Health Sciences at the University of Connecticut. Successful completion of the Graduate Certificate in HPHE requires enrollment in each course for a letter grade, a “B” or better in the required courses, and an overall earned grade point average in the Graduate Certificate Program in HPHE of 3.0 or higher.

Course Requirements:AH 5319, 6305, 6324, and a minimum of three elective credits from within the graduate course offerings in the Department of Allied Health Sciences.

\* This program is not accepting new applicants at this time.

### Health Psychology

Health Psychology is concerned with the application of psychological theory, methods and treatment to the understanding and promotion of physical health. Health psychology is based on the biopsychosocial model, which posits that biological, psychological and social processes are centrally and interactively involved in physical health and illness. This initially provocative premise has fueled major advances in psychology, medicine, nursing and public health and continues to contribute to increased understanding of physical health and the development of interventions promoting health and well-being.

Requirements: PSYC 5120. In addition, the student must also take three graduate courses (nine credits) relevant to health psychology. The Health Psychology program maintains a list of courses that are pre-approved to satisfy this latter requirement.  The Director may approve other courses in addition to those that are pre-approved. Total requirements are 12 credits.

### Holistic Nursing

This is a nine-credit hybrid certificate program designed for nurses interested in holistic health. All participants must have a master’s degree or higher to apply or be consented by the instructors of record.

Required Courses: NURS 5001, 5002, and 5003.

### Holocaust and Genocide Studies

The Post-baccalaureate Certificate in Holocaust and Genocide Studies is designed for students who hold a bachelor’s degree and want to advance their knowledge and understanding of the interdisciplinary field of Holocaust and Genocide Studies through an engagement with a range of approaches to studying the complex phenomena of the Holocaust and genocide. Students will be grounded in the histories of the Holocaust and other genocides, as well as an introductory overview of the psychological, sociological, philosophical, political and legal issues in the field. Students will have the opportunity to consider in depth various topics and disciplines, as well as methods for teaching the Holocaust and genocide in primary and secondary classrooms. Students in the program must already hold a bachelor’s degree.

**Requirements:** Students complete 12 credits, consisting of at least one core course (three credits) and three electives (nine credits). Although students must hold a bachelor’s degree to be formally admitted to the program through The Graduate School, they may count a total of six credits taken prior to admission (as an undergraduate or non-degree student) toward the Certificate. These courses (up to six credits) can include a) 1000-4000-level courses taken as undergraduates or non-degree students toward the Certificate, if those courses were not used on the undergraduate plan of study or b) 5000-level courses required for the Certificate, which can be counted toward both the undergraduate degree and certificate. Field practica, internships, summer courses, or experiential learning opportunities may be included in the program as electives on a case-by-case basis. Other elective options may be approved by the Graduate Education Director after consultation with the Graduate Education Committee.

**Core Courses (Students choose at least one. Additional core courses can count as electives.):** HRTS 2200, HIST 3418/HEJS 3203, HIST/HEJS 3419, HIST/HRTS 3207, HRTS 5450.

**Elective Courses:** ANTH/HRTS 3230, ANTH/HRTS 5335, EDCI 5092, ENG 3629, ENGL/HRTS 3631, HBEL 5386, HEJS/HRTS/DRAM 2203, HIST 1450, HIST/HRTS 3201, HIST/HRTS 3232, HRTS 3055, HRTS 3460/5460, PHIL 5397, SOCI/HRTS 3835(W).

### Human Rights

The graduate certificate in Human Rights offers graduate students the opportunity to develop a competency in human rights theory and practice while being able to craft a course of study directly relating to their specific interests and needs. The certificate provides historical, literary, and philosophical perspectives for thinking broadly about modern human rights; an understanding of social science research on rights, conflict, and governance; as well as expertise in international treaties, institutions, and case law. The certificate is open to students who are currently matriculated in a graduate level program at the University of Connecticut, including the College of Liberal Arts and Sciences, School of Education, School of Law, and School of Social Work. Students must complete 12 credits, consisting of at least one core course and three elective courses. Courses may be taken at the College of Liberal Arts and Sciences, the School of Education, the School of Social Work, or the Law School. A maximum of three credits of independent study can be applied towards the certificate course requirements. Students may also petition for the inclusion of other courses on a case-by-case basis. Departmental Special Topics and Variable Topics courses (\*), maybe taken with pre-approval of content by the Human Rights Graduate Certificate Committee. HRTS 5899 Seminar in Variable Topics in Human Rights may be repeated with a change in content.

Core Courses: EDCI 5847; HRTS 5301; LAW 7878, 7883; or SWEL 5385.

Preapproved Electives:

**College of Liberal Arts and Sciences:** ANTH 5315; ANTH 5377/PUBH 5497; ANTH 5325, 5326; ANTH/HRTS 5327; ANTH 5395\*; BLAW/BADM/HRTS 5254; CLCS 5317\*; CLCS/GERM/ALDS 5324, 5325; ECON 5473, 6473; ECON 5128/HRTS 5390; ENGL 6540; GERM 6480\*; GERM 5314\* /CLCS 5317; GERM 5345/CLCS 5317\*; GERM 6460/HEJS 5397/CLCS 5317\*; GEOG 5810\*; HIST 5195\*, 5525, 5622; HRTS 5055, 5095, 5270, 5282, 5351, 5401, 5428, 5450, 5460, 5499, 5600, 5899\*; LLAS 5105\*; PHIL 5315; POLS 5010\*, 5115, 5322; SOCI/HRTS 5825, 6825; SOCI 5515, 5614, 5801, 5806, 5895\*; SPAN 6402\*, 6405\*, 6416; WGSS 5395\*, 5398\*.

**School of Education:** EDCI 5094\*.

**School of Social Work:** SWEL 5317, 5318, 5345, 5348, 5350, 5360, 5375.

**Law School:** LAW 7358\*, 7357, 7360, 7380, 7386, 7529, 7558, 7609 (only open to law students; only four credit classroom component counts towards certificate), LAW 7653, 7655, 7672, 7679, 7695, 7722, 7759, 7814, 7815, 7831, 7838, 7872, 7876, 7914, 7927\*; LAW 7592/PUBH 5497; LAW 7942/PUBH 5463; PUBH 5497/ANTH 5377.

### Intersectional Indigeneity, Race, Ethnicity, and Politics

The Intersectional Indigeneity, Race, Ethnicity, and Politics (IIREP) Graduate Certificate offers mentorship to advanced students seeking a community of transdisciplinary peer and faculty interlocutors who share interests in nurturing ideas and networks necessary to support the advancement of inquiry devoted to exploring the relationship among domestic and international politics, social identities, and persistent inequalities.

Requirements: Students are required to complete four pre-approved three-credit courses with significant IIREP content, earning a grade of “B” or higher in each. At least two, but no more than three, of the 5000/6000-level graduate seminars must be completed in Political Science. One of the four courses must have a U.S. focus, which means that at least three-quarters of course readings and discussion will deal with questions of indigeneity, race, ethnicity, and politics as explored in the U.S. context. One of the graduate seminars must be international or global in scope, which means that at least three-quarters of course readings and discussion will deal with race, ethnicity, and politics as explored in an international or global context. To determine whether a particular course satisfies requirements, students selecting classes should consult with the IIREP Graduate Certificate program director.

Pre-approved Courses: AMST 6000; EDCI 5875, 5830; ENGL 5530, 6400, 6450, 6540; GEOG 5840; GERM 6480; HIST 5235, 5525, 5543, 5565, 5610, 5622, 5630; LAW 7529, 7655, 7703, 7810; LLAS 5105, 5610; PHIL 5310; POLS 5105, 5409, 5410; PSYC 6750, 5170, 5370; SOCI 5501; SWEL 5377, 5385. The Graduate Certificate program director may approve other courses in addition to those that are preapproved.

Finally, all students enrolled in the certificate program are expected to participate in one reading group session in which all core IIREP faculty and enrolled students read and discuss one non-course book of relevance to IIREP. IIREP Graduate Certificate students must also participate in one UConn-based graduate student conference, sharing research undertaken in one of their IIREP courses.

### Intraoperative Neuromonitoring

The Department of Physiology and Neurobiology offers a Graduate Certificate Program in Intraoperative Neuromonitoring (IONM). This program is a six-week, nine-credit summer program that is designed to prepare students for a career in the field of intraoperative neuromonitoring. Upon successful completion of the IONM program, an individual can join the field of intraoperative neuromonitoring as a neuromonitoring technologist that offers jobs in the operating room environment.

Required Courses: PNB 5101, 5102, and 5103.

### Leadership and Diversity in Sport Management

This is a 12 credit online graduate certificate program that provides students with an in-depth understanding of the process of leadership within a sport context and helps them to develop the leadership skills needed to manage a diverse workforce in sport organizations. Students are immersed in the process of leadership (including theory and practice), engage in the development of diversity management practices, and work with faculty at the University of Connecticut who have leadership and diversity management expertise. This program will also link students with recognized leaders in the field and provide hands-on projects to help them enhance their leadership skills, with a focus on leading a diverse workforce.

Required Courses:EDLR 5360, 5365, 5370, and 5375.

### Leadership and Public Management

The School of Public Policy offers a 12 credit graduate certificate in Leadership and Public Management (LPM). This certificate gives students the opportunity to build their management capacity. The LPM Certificate requires four courses. Certificate students and their advisors decide the most appropriate course of study.

### Licensed Professional Counselor

The Licensed Professional Counselor Certificate is designed for those students who have already completed a master’s degree in School Counseling, School Psychology, or a related mental health field at a regionally accredited institution. Applicants must have taken, or, be enrolled in a master’s program that requires coursework in the following content areas; human growth and development, social and cultural foundations, counseling theories, counseling techniques, group counseling, career counseling, appraisal procedures, research and evaluation, and a practicum of at least 100 hours. At the conclusion of the coursework and clinical internships individuals can apply for the LPC-A certification from the Connecticut Department of Public Health. Students must complete 18 credits.

**Required Courses:** EPSY 5323, 5625; EPSY 5322 (must be repeated for a total of six credits); EPSY 5324, 5626.

### Life Story Practice and Research

The School of Nursing offers a 12 credit online certificate program in Life Story Practice and Research. The purpose of this online certificate program is to prepare graduate students and professionals with the knowledge and skills needed to conduct life story interventions and/or programs with individuals, families, and groups. Students will examine different life story methods including written and oral narratives, reminiscence, life review, autobiographical memory, and guided autobiography. Two fieldwork courses provide opportunities for students to apply life story methods under the mentorship of experts in the field.

**Required Courses:** NURS 5190, 5191, 5192, 5193, and 5194.

### Literacy and Deaf Education

The Neag School of Education Program in Literacy and Deaf Education is a 12-credit graduate certificate designed for pre- and in-service teachers. Students are required to take EDCI 5165 and 5170, and select two additional courses from the set of courses listed below.

EDCI 5140, 5705, 5742, 5750, 5890; PSYC 5441; SLHS 5123.

### Literacy Leadership

The Neag School of Education program in Literacy Leadership is a 12-credit graduate certificate designed for educators interested in obtaining the 097 Reading and Language Arts Consultant certification. Students are required to take EDCI 5150 or 5155; EDCI 5160; and six credits of EDCI 5092 (practicum).

### Literacy Supports

This 12 credit certificate program in Literacy Supports for students with and at-risk for learning disabilities provides in-depth learning and experiences in theory and methods of literacy (reading and writing) instruction. Students will have specialized knowledge in literacy assessment and instruction for preK-12 students who exhibit difficulties acquiring and developing literacy skills. The Literacy Supports specialization is for educators who: are interested in improving literacy outcomes for students with disabilities and at-risk for failure; want to support all students in a variety of classroom settings within an RtI or SRBI framework; want to understand how to support the literacy needs of students in content areas; desire a more focused and intensive exploration and application of literacy theory, methods, and practices for students with disabilities and at risk for learning difficulties, and recognize the diverse learning needs of students in today’s classrooms.

Required Courses:EPSY 5092 and three courses from ESPY 5113, 5114, 5115 or 5123.

### Literary Translation

The Graduate Certificate in Literary Translation offers training in a wide range of applied and cross-cultural theoretical approaches to translation, while providing a professional toolset for creating publishable translations and research articles. The certificate is designed to provide both hands-on, practical experience, and a strong theoretical foundation in what has become one of the most globally relevant fields of the twenty-first century. The certificate can be earned by students enrolled in a University of Connecticut Graduate Degree Program, or as a stand-alone certificate for those who already possess an undergraduate degree. Total course requirement is 12 credits.

**Required courses:** TRST 5010, 5011, and 5020.

**Elective course:** one course at the 5000/6000-level from one of the foreign language literatures offered by the department of Literatures, Cultures, and Languages, or one of the Creative Writing or Literature courses offered by the English Department. Students may choose an elective course from another graduate department at UConn with the approval of the Director of the Program in Literary Translation.

### Logic

Logic is a multifaceted subject that connects many disciplines, including mathematics, computer science, philosophy, linguistics, and other areas. The certificate facilitates advanced studies in a variety of topics, including: mathematical logic; the theory of computation; formal semantics; natural-language reasoning; vagueness, probability, and contradiction; and the application of logic and formal methods to law and cognitive science. Administered through the UConn Logic Group, which is an internationally recognized center of logic research excellence, the certificate will provide students with a broad and comprehensive background in the subject, with a specific focus on interdisciplinary applications.

Required Course: Students are required to take a one credit independent study with a Certificate Director, which includes participation in the Logic Colloquium for at least one semester.

Elective Courses:Four courses from among CSE 5102, 5506; LING 5410, 5420, 6410, 6420; MATH 5026, 5260; PHIL 5307, 5311, 5344. At least two of the completed courses must be from different departments. Courses not listed here may be included by approval of Certificate Directors. Total course requirement is 12 credits.

### Long-Term Health Care Management

This program is designed to meet all State of Connecticut requirements for long-term healthcare administration licensure. The primary objective of the program is to prepare students for careers in long-term health care management. Students must complete 12 credits.

Required Coursework:HCMI 5549 for three credits and HCMI 5632 for nine credits (900 hours).

### Medical Laboratory Sciences

Medical Laboratory Sciences (also known as Medical Technology or Clinical Laboratory Sciences) is the branch of laboratory medicine which deals with the study of blood and other body specimens to aid in the diagnosis of human disease, determine optimal therapy, and monitor the progress of treatment. Medical Laboratory Scientists are essential members of the healthcare team who are responsible for performing the analysis, evaluating normal and abnormal results, and correlating the results with disease states. The information they provide physicians is essential to patient care. They are involved with every aspect of clinical laboratory testing including method development, analysis, quality assurance, training of personnel, and laboratory management. Areas of the clinical laboratory include hematology, immunology, microbiology, chemistry, transfusion services, urinalysis and molecular diagnostics.

The Medical Laboratory Sciences Certificate program is open to individuals who possess a bachelor's degree in Biology, Chemistry, Molecular and Cell Biology, or a related subject area and have completed the appropriate prerequisite courses. The certificate program starts in the spring semester. The one and a half year program includes two semesters at the Storrs campus, plus eight weeks of summer courses, followed by an 18 week clinical (practicum) rotation conducted at one of several clinical affiliates throughout the state. The Medical Laboratory Sciences Program is fully accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). As such, students who have successfully completed the program, may sit for the national certification examination offered by the Board of Certification of the American Society for Clinical Pathology (ASCP).

Required Courses: AH 2001 and 4241; DGS 4234 and 4235; and MLSC 3301, 3333, 3365, 4301, 4302, 4311, 4312, 4321, 4322, 4341, 4342, 4351, 4352, 4371, 4372 and 4500, for a total of 50 credits.

### Music Performance

The Music Performance Certificate program requires satisfactory completion of at least 12 credits, with a minimum GPA of 3.0. Students in the program are required to take two semesters totaling eight credits of MUSI 5323 and to present a non-credit public recital. Additional course requirements are discipline-specific, as listed below.

Certificate in Strings, Winds, or Percussion:Two semesters of MUSI 5305 and two semesters of MUSI 5324.

Certificate in Piano:Two semesters of MUSI 5300 and two semesters of MUSI 5324.

Certificate in Voice:Two semesters of MUSI 5305 or 5325, and two semesters of MUSI 5300.

Certificate in Conducting:Two semesters of MUSI 5305 and two semesters of MUSI 5331.

**Certificate in Jazz:** Two semesters of MUSI 5305 or 5324, and two semesters of MUSI 5300.

### Neurobiology of Language

Faculty affiliated with the Cognitive Science program and the graduate training program in Neurobiology of Language offer a Graduate Certificate in Neurobiology of Language. The required four courses, listed below, provide background in neurodevelopment and linguistic structure and processing, followed by courses that integrate cognitive and biological approaches to understanding typical and atypical language throughout the lifespan, totaling a minimum of 12 credits.

Required Courses: COGS 5120, 5130, 5140, and 5150.

### Nonprofit Management

The Online Graduate Certificate in Nonprofit Management, administered by the School of Public Policy, focuses on a core set of skills needed by leaders in the nonprofit sector. The Nonprofit Management Certificate requires 12 credits of course work. Certificate students choose two electives in addition to the two required courses.

Required Courses: PP 5323 and 5328.

**Elective Courses:** Certificate students work with their advisors to choose the most appropriate electives from PP 5319, 5324, 5329, 5336, and 5366.

### Nurse Educator

The Nurse Educator Graduate Certificate is a nine-course (27-credit) graduate certificate program offered entirely online. It is designed for Masters-prepared nurses who wish to pursue a nurse educator role in institutions of higher education, staff development, or other education industries. The certificate program provides knowledge and skills on evidence-based and cutting-edge strategies for teaching and learning in nursing. The certificate will prepare you for eligibility to apply for national certification through the National League for Nursing as a Certified Nurse Educator (CNE). A minimum of 2,080 hours of clinical experience as a Registered Nurse (RN) providing direct patient care is required prior to application.

**Required Courses:** NURS 5060, 5062, 5235, 5249, 5470 or 5590, 5700, 5710, 5720, 5870.

One or more of the following course requirements may be waived with approval at the time of admission based on a student having taken equivalent courses: NURS 5060, 5062, 5470 or 5590, and 5870.

### Nurse Leader

The Nurse Leader Graduate Certificate is a seven-course (21-credit) graduate certificate program offered entirely online. It is designed for Masters-prepared nurses who wish to pursue administrative leadership within healthcare organizations and provides real-world skills in staff development, labor relations, healthcare financing, quality improvement and human resource management. The certificate program can be used to fulfill eligibility requirements to apply for the American Nurses Association Nurse Executive Certification (NE-BC) or Nurse Executive Advanced Executive Certification (NEA-BC) or the American Organization for Nurse Leaders as a Certified Nurse Manager and Leader (CNML) or Certified in Executive Nursing Practice (CENL).

**Required Courses:** NURS 5230, 5235, 5240, 5245, 5249, 5865, 5870.

One or more of the following course requirements may be waived with approval at the time of admission based on a student having taken equivalent courses: NURS 5235, 5865, and 5870.

### Obesity Prevention and Weight Management

The Interdisciplinary Obesity Prevention and Weight Management certificate is a 12-credit graduate certificate offered through the Institute for Collaboration on Health, Intervention, and Policy (InCHIP). The certificate recognizes the interdisciplinary nature of obesity and offers students concentrated exposure to foundational concepts and opportunities to dive deeper into broad topic areas such as the nutritional, exercise, and behavioral sciences as well as policy. The certificate program recognizes that there are multiple drivers of the obesity epidemic and challenges students to explore solutions for obesity at various levels and settings (e.g., from prevention to treatment, from childhood to adult, from individual to policy). Students who earn this graduate certificate will be better equipped to engage in interdisciplinary research and clinical care on obesity-related issues and collaborate across knowledge silos with the goal of understanding, preventing, and treating obesity. No prior experience with, or knowledge of obesity prevention or weight management is required, but prior coursework in research methods, nutrition, kinesiology, or behavioral sciences may be helpful.

**Requirements:** Students are required to take CHIP 5000, plus three additional elective courses (three credits each), one from each of the three areas below, as approved by the Interdisciplinary Certificate in Obesity Prevention and Weight Management Committee. Students are allowed, but not required, to take one elective course in their home department. The certificate requires completing all four courses while maintaining a GPA of 3.0 or higher in each required course.

**Electives courses (minimum of one course from each category):**

Nutritional Sciences: NUSC 5398, 6315, 6317; HDFS 5095.

Physical Activity/Exercise Science: KINS 5507, 5508, 5595.

Behavioral Science and Policy: AH 6305, 6324; ARE 5205; COMM 5770; HDFS 5095, 5340; PSYC 5120, 6750; PUBH 5477.

### Occupational Health Psychology

Occupational Health Psychology (OHP) involves the interdisciplinary partnerships of psychological and occupational health science professionals seeking to improve the quality of working life, and enhance the safety, health and well-being of workers in all occupations. Because it exists at the intersection of behavioral science and occupational health disciplines, OHP is inclusive of knowledge and methods from psychology, public/occupational health, organizational studies, human factors, and allied fields (such as occupational sociology, industrial engineering, economics, and others). OHP is concerned with the broad range of exposures and mechanisms that affect the quality of working life and the responses of workers. These include individual psychological attributes, job content and work organization, organizational policies and practices, and the economic and political environments in which organizations function. OHP research and practice explores interventions targeting the work environment as well as the individual, to create healthier workplaces and organizations and to improve the capacity of workers to protect their safety and health and to maximize their overall effectiveness. The certificate program follows a scientist-practitioner model of training with an emphasis on research. Coursework includes an introductory OHP proseminar, an epidemiology course, supervised field or lab research in occupational safety and health, plus elective courses in occupational safety and health such as ergonomics and organizational stress.

Required Common Core Course: PSYC 5123.

**One Required Field/Lab OHP Research Experience:** GRAD 5950, 5960, 6950, 6960; or PSYC 5800.

Required Methodology Course:PUBH 5497 when taught as Intermediate Epidemiology.

Elective Specialization Seminars (two required – one outside primary discipline): BME 5339; PSYC 5670 when taught as Organizational Stress or Work and Aging; PSYC 5120, 5617; PUBH 5497 when taught as Introductory Ergonomics and Exposure Assessment, Occupational and Environmental Health Policy, or Health in the Built Environment; or PUBH 6493.

### Occupational Safety and Health

The Department of Allied Health Sciences offers a post-baccalaureate online certificate program in Occupational Safety and Health (OSH). The 15-credit certificate program may be completed entirely online. For students who wish and are able to experience one or more courses in a classroom environment, however, some courses also are offered in a classroom.

The certificate program is designed for individuals who possess a bachelor’s degree and who wish to enter the exciting and growing profession of occupational safety and health. It is also designed for individuals already practicing in the profession but who are interested in gaining an academic foundation to improve their work performance and enhance their professional advancement.

Requirements: In addition to the Graduate School general requirements for Certificate Programs, the following course work is required (each course is equivalent to three credits):

Required core courses: (nine credits) AH 3570, 3571, and 3573.

Elective courses: (six credits) AH 3173, 3175, 3275, 3278, or 3574.

Each required and elective course taken must be passed with a grade of B (not B-) or higher to count toward the certificate requirements.

### Oceanographic Science and Technology

This graduate certificate program is designed to train engineers and environmental scientists in ocean science and technology. The certificate program focuses on the environmental factors, design challenges, and corresponding analysis with direct applications to the growing fields of marine technology, ocean engineering, and marine renewable energy. Students complete a 12-credit set of online courses in Marine Sciences, Mechanical Engineering, and Electrical and Computer Engineering. These courses build competency in ocean fluid dynamics, oceanographic data analysis, underwater acoustics, and underwater sensing systems analysis and design.

**Required Courses**: MARN 5068, 5200; ECE 5151; and ME 5215.

### Pain Management

This is a 12-credit online certificate program designed for those interested in the science of pain management. It is intended for researchers, clinicians and educators. All participants must have a bachelor’s degree or higher to apply or be consented by the instructors of record.

Required Courses: NURS 5101, 5102, 5103, and 5104.

This certificate is offered by the School of Nursing.

### **Post-Graduate APRN Certificate Program***(Formerly Offered as Nursing Practice)*

The School of Nursing offers Post-Graduate APRN Certificates in the following concentrations: Adult Gerontology Acute Care Nurse Practitioner, Adult Gerontology Primary Care Nurse Practitioner (this program is not currently accepting new students), Family Nurse Practitioner, and Neonatal Nurse Practitioner. These certificates are appropriate for registered nurses (RNs) with a bachelor’s degree in nursing and a master’s degree who wish to pursue an APRN concentration. Each concentration consists of population-focused practicum courses and their associated theory courses. Faculty track directors may require additional coursework on an individual basis. Applicants must possess a minimum grade point average of 3.0 (B) from their graduate program in nursing.

**Post-Graduate APRN Certificate: Adult Gerontology Acute Care Nurse Practitioner (AGACNP)**

Post-Graduate APRN Certificate: AGACNP graduates are prepared as advance practice nurses to assess, diagnose, monitor, treat and coordinate care of acutely and critically ill individuals from adolescence to senescence. The core competencies emphasize teaching/coaching, consultation and evidence-based practice. The focus of the role is to provide services ranging from disease prevention to critical care to stabilize the patient’s condition, prevent complications, restore maximum health and/or provide palliative care. The AGACNP practice focuses on patients who are characterized as “physiologically unstable, technologically dependent, and/or are highly vulnerable to complications” (American Association of Colleges of Nursing, 2012). Graduates of this concentration are prepared to apply for eligibility to take the AGACNP certification examination prepared by an approved national organization.

Required Courses: NURS 5060, 5500, 5550, 5559, 5560, 5562, 5569, 5570, 5579, and 5590.

**Post-Graduate APRN Certificate: Adult Gerontology Primary Care Nurse Practitioner (AGPCNP)** (This program is not currently accepting new students)

Post-Graduate APRN Certificate: AGPCNP graduates are prepared as advance practice nurses to assess, diagnose, monitor, treat and coordinate care of individuals from adolescence to senescence with common acute and chronic conditions within the context of family and community. The focus of the role is on the delivery of primary care to the individual including health promotion, disease prevention, and disease management activities to support healthy lives. The core competencies emphasize teaching/coaching, consultation and evidence based practice. Graduates of this concentration are prepared to apply for eligibility to take the AGPCNP certification examination prepared by an approved national organization.

Required Courses: NURS 5060, 5062, 5400, 5405, 5409, 5410, 5419, 5420, 5429, and 5470.

**Post-Graduate APRN Certificate: Family Nurse Practitioner (FNP)**

Post-Graduate APRN Certificate: FNP graduates are prepared as advance practice nurses to assess, diagnose, monitor, treat and coordinate care of individuals across the lifespan with common acute and chronic conditions within the context of family and community. The focus of the specialty is on the delivery of primary care to the individual across the lifespan within the context of the family and community including health promotion, disease prevention, and disease management activities to support healthy lives. The core competencies emphasize teaching/coaching, consultation and evidence based practice. Graduates of this concentration are prepared to apply for eligibility to take the FNP certification examination prepared by an approved national organization.

Required Courses: NURS 5060, 5062, 5400, 5405, 5409, 5410, 5420, 5430, 5439, 5449, and 5470.

**Post-Graduate APRN Certificate: Neonatal Nurse Practitioner (NNP)**

Advanced practice roles in neonatology are among the oldest and most respected of all advanced practice roles in the U.S. Educational preparation as a neonatal nurse practitioner (NNP) provides experienced neonatal nurses with an increased opportunity to make significant contributions to patient care and to influence neonatal population outcomes. Graduates of the NNP Program assume leadership roles guiding patient management plans in neonatal intensive care units, level II special care nurseries, and well-baby nurseries, among other settings. Graduates are prepared to apply for eligibility to take the Neonatal Nurse Practitioner examination given by the National Certification Corporation.

Required Courses: NURS 5350, 5362, 5365, 5370, 5369, 5375, 5379, 5385, and 5389.

The required coursework for the above four post-graduate APRN certificate program concentrations are the core courses (if not completed in original graduate degree program) and the related concentration specific courses.

### Postsecondary Disability Services

The Postsecondary Disability Services (PDS) certificate program is a four course (12 credit) graduate certificate offered entirely online. It targets working educational professionals who are seeking a job in higher education disability services, specifically, student affairs generalists, special education teachers, school psychologists, school social workers, and transition coordinators.

Required Courses:EPSY 5092, 5145, 5199, and either 5140 or 5146.

### Power Engineering

The Electrical and Computer Engineering Department offers a 12-credit certificate program in Power Engineering. The courses provide the necessary knowledge at an advanced level to engage in the analysis and design of power systems. Students will learn how to model major components used in the generation and distribution of power, analyze the systems and methods used for the monitoring and protection of power systems, use appropriate tools and techniques for the planning and design of power systems, and choose suitable devices for integrating various power sources into a grid.

Required Courses: ECE 5510, 5520, 5530, and 5540.

### Power Grid Modernization

The Eversource Center offers a 12-credit certificate program to train engineers in the industry of utility power grid modernization. The certificate program aims to augment skills and competence in areas of high priority as perceived by the utility stakeholders. The students will be trained in four main areas:

1. Fundamentals and practice of control techniques, design, and operation of microgrids.
2. End-to-end processing, analytics, and interpretation of modern power grid data.
3. Smart grid architectures, applications, requirements, technical challenges, and enhancements in communication systems.
4. Operation, control, and management of energy resources in smart distribution grids.

Required Courses: ECE 5550, 5552 and 5554; and ENVE 5331.

### Precision Nutrition

The Department of Nutritional Sciences offers a 12-credit online graduate certificate program in Precision Nutrition. The program is designed for individuals working in healthcare, private practice, and industry and provides advanced knowledge in human nutrition, nutritional genetics and genomics, and metabolism. The certificate’s integrated curriculum establishes the foundation essential to developing individualized dietary recommendations for the promotion of health and prevention of chronic disease.

**Requirements:** NUSC 5200, 5300, 5700, and one 5000-level or 6000-level NUSC elective.

### Pre-Medical and Health Professions Post-Baccalaureate Program

The University of Connecticut Pre-Medical and Health Professions Post-Baccalaureate Program is a small, highly selective certificate program. Its mission is to prepare students who have completed an undergraduate degree and wish to strengthen their preparation for professional school. The program is offered in two forms. Program A requires 60 credits and is typically completed in four semesters (two years) of Fall and Spring Semester coursework. It is recommended for students who are making a career change to medicine or dentistry. Program B requires 30 credits and is typically completed in two semesters (one year) of Fall and Spring Semester coursework. It is recommended for students who have already taken numerous undergraduate courses concentrating in math and biosciences but need advanced level courses in these areas to enhance their application to professional schools. Under both Program A and Program B, students take primarily undergraduate courses to complete the program requirements.

Prerequisites for Applicants.Completion of all requirements for a baccalaureate degree must be from an accredited college or university. Applicants may apply while in their final year of a bachelor’s program. An undergraduate GPA of a minimum 3.50 or better is required for Program A; 3.25 or better for Program B. Exceptions are considered only in special circumstances after review by the Program Director with a documented history of community service and documented experience in a relevant health care field. Test scores are considered if applicant has any to report but they are not a required element of the application. Successful applicants must have demonstrated a commitment to the community (evidenced by a history of community service activities) and must have a strong understanding of their specific health professional goal (obtained from activities such as volunteer experience, shadowing experience, or work activities in private practice, clinic, or hospital settings). The Post-Baccalaureate Program assesses applicants using a holistic review methodology, so that all aspects of a candidate’s history are considered. Each student’s non-academic requirements will be evaluated based on their prior activities and an appropriate level of activity identified for completion during the winter or summer breaks. Research projects should be undertaken for an entire summer.

Requirements for Enrolled Students. There are no specific course requirements. The course schedule is individually tailored to fit each student’s interests and needs in consultation with the program advisor based on their health professional goals. No withdrawals (grade of “W”) will be considered unless due to difficult personal circumstances. Students must maintain a minimum 3.25 GPA and 15 credits each semester (12 credits of science) unless otherwise advised. Students complete experiential and programming activities as specified by Enrichment Programs in consultation with the respective professional school. These include (limited and tailored so as not to interfere with course demands): required community service activities over course of program; required participation in conferences, seminars, and guest lecture presentations at the Storrs campus; required participation at targeted academic seminars, visits to professional schools, research seminars, inter-professional education activities, and other relevant activities off campus; optional research component at the main campus, Health Center complex, or participating hospitals during summer semester break. Additional clinical work, shadowing experience, community service, MCAT/DAT Review Courses offered by the University are also recommended.

### Process Engineering

The Chemical and Biomolecular Engineering Department offers a 12-credit fully online certificate program in Process Engineering. Process engineering is the merger of fundamental engineering science and knowledge along with empirical information to develop and optimize processes. Process Engineering is primarily grounded in the discipline of Chemical Engineering and its core areas, including thermodynamics, transport phenomenon, and kinetics. The fundamental knowledge for Process Engineering is encoded in mathematical models, whereas the empirical information is represented by data science/machine learning models. To be an effective process engineer, one must develop a familiarity with both of these areas, as well as the ability to integrate them. Over the course of this program, the student will be introduced to these concepts within the context of real-world case studies.

Required Courses: CHEG 5001, 5330, 5333, and 5339.

### Program Evaluation

The Department of Educational Psychology (EPSY) offers a Graduate Certificate in Program Evaluation. There are two modalities in which this certificate program is offered: online and face-to-face. The face-to-face program is designed for current University of Connecticut graduate students who wish to acquire foundational skills and knowledge in the area of program evaluation, while the online program is designed for working professionals with those interests. The certificate is earned through coursework, including a required practicum. Certificate students must complete 12 credits. Students must maintain a GPA of 3.0 or higher in each required course.

Required Core Courses: EPSY 5195, 6601, 6621, and 6623.

Required Practicum:EPSY 5195; which requires that students work collaboratively with faculty to integrate their course experiences into actual evaluation practice. Current issues in the field may be discussed. Activities are tailored to the skills and needs necessary to complete work on students’ selected evaluation projects.

### Public Financial Management

The Graduate Certificate in Public Financial Management (PFM), offered through the School of Public Policy, prepares professionals for leadership positions in the finance and budget areas of public and nonprofit organizations. The four course PFM Certificate is comprised of 12 credits of coursework. Certificate students and their advisors decide the most appropriate course of study.

### Puppet Arts

The Department of Dramatic Arts offers an online graduate certificate in Puppet Arts. The certificate is comprised of four required courses totaling 12 credits. The courses in the program emphasize the construct puppets using a variety of techniques, including sculpting, molding, casting, painting, and carving and how puppetry can be used as a global art form. Students will also gain insights into the history of puppetry and will have an understanding of the larger context of the field and how traditions influence practices today. This program can be completed in 17 months.

Required Courses:DRAM 5607, 5610, 5613, and 5617.

### Quantitative Research Methods

The program in Quantitative Research Methods (QRM) is a graduate certificate program administered by faculty in the Departments of Psychological Sciences, Sociology, and Educational Psychology, but drawing students from many other departments and schools. The general structure and policies of this program follow the guidelines for graduate certificate programs specified in the UConn Graduate Catalog. The program’s mission is to provide students with a thorough background in quantitative research methods in the psychological sciences that extends the basic research methods training required by their respective graduate programs. Students interested in the programdesign an individualized plan of study, in consultation with their major advisor, which serves their research needs, interests, and career goals.

Prerequisite Course Requirements: PSYC 5104 and 5105 or equivalent courses. Students who wish to substitute equivalent coursework for these two courses with other graduate level introductory statistics courses need to submit a petition to the Director of the QRM program.

Credit Requirement: Participants in the program complete 12 credits of graduate coursework in quantitative methods. The 12 credits are selected from: AH 6005; EPSY 6611, 6615, 6637, 6651; HDFS 5095 when taught as Longitudinal Methods, Meta Analysis, or other topic approved by the Program Director; MENT 6206; PSYC 5131, 5332, 5470, 5554, 5670 when taught as Multivariate Approaches to Survey Data; PSYC 5701, 5702, 6130; PUBH 5434 or 5435; SOCI 5203; STAT 3375Q or 5825.

Additional courses are acceptable with prior approval. Students who wish to petition for a course that is not listed may do so by submitting a petition with sufficient documentation of the content of the course to the QRM Director (syllabus, exam examples). Such courses cannot be from other institutions.

### Remote Sensing and Geospatial Data Analytics

This is an online program offered by the Department of Natural Resources and the Environment. The Remote Sensing and Geospatial Data Analytics (RSGDA) program is designed for college graduates and graduate students looking to develop remote sensing knowledge and skills, and working professionals looking to enhance their skills or prepare for a graduate degree program. It takes about 12 to 18 months to complete.

**Requirements:** The program requires 12 credits total. Six credits come from two required courses; NRE 5525 and 5535. Six additional credits are earned by selecting two of the following four courses; NRE 5215, 5545, 5560, or 5585.

### School Law

This is a 12 credit online graduate certificate program for K-12 Professionals that cuts through the legalese to help educators, administrators, and policymakers understand the dimensions of K-12 education. Students acquire the knowledge and skills to ensure that educational practices in the classroom, school, or district comply with state (generally applicable to all states) and federal statutes and regulations and case law.

Required Courses:EDLR 6001, 6002, 6004; and EPSY 5119.

### School-wide Positive Behavior Support

The graduate certificate program in School-wide Positive Behavior Support (SWPBS) is designed for students who have education, experience, or both in Special Education or a related area of study; are pursuing advanced degrees in Special Education or a related area of study or wish to gain additional knowledge through continuing education; desire to gain an in-depth knowledge of Applied Behavior Analysis (ABA), the empirical basis for SWPBS; and commit to applying evidence-based practices in positive behavior interventions and supports in their future work. Students may apply for the Graduate Certificate in SWPBS along with their application to an advanced degree program (i.e., Master of Arts, 6th Year, or Doctor of Philosophy) in Special Education or a related area of study; upon acceptance into an advanced degree program in Special Education or a related area of study; as a non–degree student interested in gaining additional knowledge in SWPBS; or after completing the initial course in the sequence (i.e., EPSY 5141).

Required Courses:EPSY 3125, 5092, 5141, 5142, and 5405, offered in four consecutive semesters. In addition, students are required to complete activities to demonstrate mastery of competencies in the area of SWPBS.

### Social Determinants of Health and Disparities

The Certificate in Social Determinants of Health and Disparities (CSDH&D) is intended to train 21st century health care and public health practitioners with skills and vision necessary to identify health disparities and develop public policies that promote health equity. The certificate provides students with both conceptual understanding and practical skills. UConn Medical and Dental students enrolled in the CSDH&D complete the equivalent of four graduate level courses while simultaneously completing Years 1 and 2 of the School of Medicine’s MDelta curriculum (primarily through the VITAL, and COrE course and Stage 1 experiences in Scholarship and Discovery). UConn Medical and Dental students pursuing the dual M.P.H./M.D. or M.P.H./D.M.D will receive the equivalent of a 12-credit waiver as part of the dual program requirements for having completed the CSDH&D.

Other candidates for the CSDH&D will complete four courses offered in traditional semester format. Subject matter of the certificate focuses on principles and methods for examining the distribution and determinants of health and health care services across populations, the origins and impact of social inequality/inequity in society, and the resources and evidence-based opportunities to remedy observed disparities in health care and outcomes.

Required Courses: PUBH 5201, 5202, 5408, and 5409.

### Special Education Transition to Adulthood

The Special Education (SPED) Transition certificate program is a four course (12 credit) graduate certificate offered entirely online. It targets working educational professionals, specifically, special education teachers, school psychologists, school social workers, and transition coordinators.

Required Courses:EPSY 5094, 5140, 5146, and either 5119 or 5145.

### Survey Research

The Online Graduate Certificate in Survey Research, which is offered by the School of Public Policy, prepares students to use survey research in their careers. The certificate is comprised of four courses, totaling 12 credits. The certificate courses can be applied to the Master of Arts in Survey Research and Data Analysis provided the student makes the decision to apply to the Master’s degree program prior to having the certificate awarded. Graduate certificate students and their advisors decide the most appropriate course of study.

Required Courses: PP 5379 and nine additional credits of the following: PP 5322, 5332, 5376, 5377, 5382, 5383, 5384, 5341 or 5385\*, 5386, 5387, 5388, 5389, or 5397.

\*Recommended course for students who do not have professional survey research experience.

### Sustainable Environmental Planning and Management

This is an online program offered by the Department of Natural Resources and the Environment. The SEPM program is designed for college graduates and graduate students looking to enter environmental planning or management fields, and working professionals looking to enhance their skills or prepare for a graduate degree program. It takes about 12 to 18 months to complete. The certificate courses may be applied to or completed concurrent with the online Master of Energy and Environmental Management degree.

Required Courses: NRE 5200 and 5220; two electives from the following list: NRE 5205, 5210, 5215, 5225, 5230, or 5585.

### Systems Genomics: Clinical Communication and Counseling

The Systems Genomics: Clinical Communication and Counseling Graduate Certificate is a 12-credit asynchronous online program consisting of four courses designed to provide foundational concepts of counseling and health communication theories. Concepts of counseling will be applied in varied formats toward creating effective provider-patient or advocate-consumer communication. Skill development will focus on supporting health care discussions and conversations requiring translation of genetic and genomic information for the benefit of the person and society in the era of precision medicine. This program is designed for individuals tracking for or already practicing in the health care field who are interested in gaining an academic foundation to improve work performance and/or for professional advancement. Admission to the graduate program in Systems Genomics: Clinical Communication and Counseling requires completion of an undergraduate degree in a related communication, health and/or science field.

**Requirements:** ISG 5200, 5201, 5202, and 5203. It is recommended that the courses be completed in the order listed. Each required course taken must be passed with a grade of B- or higher to count toward the certificate requirements.

### Women’s, Gender and Sexuality Studies

The Women’s, Gender and Sexuality Studies Graduate Certificate program offers students the opportunity to develop their research and scholarship in the areas of gender and sexuality studies, transnational feminism, queer theory, transgender studies, race, decolonial thought, disability studies, digital humanities and border studies. The WGSS certificate emphasizes praxis, theory and methodology and is grounded in a feminist analytic. The certificate challenges disciplinary boundaries and facilitates critical reflection within the field of gender, sexuality and feminist studies. Students must compete 12 credits.

**Required Courses:** WGSS 5365 or WGSS 5366.

**Elective Requirements:** Students must complete nine credits of graduate-level elective courses in Women’s, Gender, and Sexuality Studies or cross-listed with Women’s Gender, and Sexuality Studies. Students may also choose electives from WGSS-approved courses offered in other disciplines as listed on the WGSS Website. No more than three credits of Independent Study (WGSS 5390) may be applied towards the certificate, unless approved by the WGSS Graduate Studies Committee. Students who will be working as Teaching Assistants in WGSS are strongly encouraged to take WGSS 5366.