

Certificate Program Requirements

CERTIFICATE PROGRAMS

Transfer Credit

Graduate level certificate programs are offered by the University of Toledo Health Science Campus (UTHSC) in the areas listed below.

Transfer of graduate credit for certificate programs is limited to a maximum of one-fourth of the total number of credits for the award of a certificate.

Credits earned to complete a graduate certificate program (at UTHSC within 5 years of application) may be applied toward a master or doctoral degree at UTHSC pending approval of the student's official Plan of Study.

Graduate credits which were applied to a previous graduate degree at the University of Toledo or another institution cannot be used for a second degree or certificate.

Graduate Adult Nurse Practitioner Certificate (ANP-C)

ANP-C – Adult Nurse Practitioner – Offered for individuals who have completed a master's degree in nursing and desire specialized knowledge to seek certification as an ANP. See MSN degree requirements in this handbook for a complete description of this program.

Graduate Family Nurse Practitioner Certificate (FNP-C)

FNP-C – Family Nurse Practitioner – Offered for individuals who have completed a master's degree in nursing and desire specialized knowledge to seek certification as an FNP. See MSN degree requirements in this handbook for a complete description of this program.

Graduate Pediatric Nurse Practitioner Certificate (PNP-C)

PNP-C – Pediatric Nurse Practitioner – Offered for individuals who have completed a master's degree in nursing and who desire specialized knowledge to seek certification as a PNP. Courses award academic credit. See MSN degree requirements in this handbook for a complete description of this program.

Graduate Psychiatric-Mental Health Clinical Nurse Specialist Certificate (PMH/CNS-C)

PMH/CNS-C – Psychiatric-Mental Health Clinical Nurse Specialist Certificate – The PMH/CNS Certificate program is offered to individuals who have completed a master's degree in nursing and who desire specialized knowledge to seek certification as an CNS. All of the courses award academic credit from the University of Toledo. See MSN degree requirements in this handbook for a complete description of this program.

Certificate Program Requirements

Nursing Education Certificate (NEC)

NEC – Nursing Education Certificate – The Nursing Education Certificate program is designed to provide an opportunity for current and potential nurse educators in academic or healthcare settings to develop and refine their practice as teachers. This certificate provides evidence of a commitment to the professional responsibility as teachers in a variety of healthcare settings.

Enrollment is open to both graduate students in the MSN program and certificate students who are registered nurses with a baccalaureate or higher degree. See MSN degree requirements in this handbook for a complete description of this program.

Occupational Health Certificate (COH)

COH – Occupational Health – This certificate is available in Industrial Hygiene. This program is for students who desire to augment their existing education and training via academic courses. See MSOH degree requirements for a complete description of this program.

Contemporary Gerontological Practice Certificate

The Graduate Certificate in Contemporary Gerontological Practice is designed to provide basic knowledge about contemporary issues in gerontology and geriatrics and prepare individuals for working with older adults and their families in the current healthcare environment. By delivering the courses mainly online, the certificate program provides access to high quality education and graduate courses in gerontology to enhance the knowledge and professional practice of many providers and students who may not be able to attend traditional classes.

Curriculum

The curriculum consists of five, three credit courses. The curriculum incorporates the biological, psychological and sociological perspectives into each course. Contemporary practice issues also are explored throughout the curriculum.

The courses in the curriculum are as follows:

Certificate Program Requirements

<u>Course #</u>	<u>Course Title</u>	<u>Credits</u>
Fall		
GERO540	Health and Aging	3
GERO541	Issues in Contemporary Gerontological Practice	3
Spring		
GERO542	Grief and Bereavement Issues in Older Adulthood	3
GERO543	Funding and Resource Generation for Older Adult Programming	3
Fall, Spring, Summer		
GERO544	Guided Independent Study in Gerontological Practice	3

Admission Criteria

Criteria for regular admission are as follows. Applicants not meeting all of these criteria (e.g., GPA < 3.0) may be eligible for conditional admission. Students can be admitted fall or spring semester. Application materials are due on or before July 1st for fall semester admission, or November 15th for entry in spring semester. To be considered for admittance into the program, a candidate must:

- Hold a baccalaureate from an accredited college or university with a minimum 3.0 undergraduate grade point average. Degrees in progress will be considered.
- Submit official transcripts stating the completion of the baccalaureate;
- Submit two letters of recommendation; and
- Complete the online application form and submit the \$45 application fee.

If a current University of Toledo graduate student is interested in the program, he/she needs to be in good standing in his/her current degree program and submit a letter of request for admittance into the program in addition to the two letters of recommendation.

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Human Donation Science Certificate

The graduate certificate in Human Donation Science is designed to provide entry-level professional preparation for individuals who wish to become a human organ procurement coordinator.

The curriculum consists of seven courses offered in a three-semester sequence over 1 year. Basic science and medical science provide a foundation for professional course work and supervised clinical experience. In addition, courses also focus upon the legal, ethical, socio-cultural and behavioral dimensions associated with death, organ donation and transplantation. The courses include didactic and experiential learning and culminate in a capstone seminar.

The courses in the curriculum are as follows:

<u>Course #</u>	<u>Course Title</u>	<u>Credits</u>
Fall		
HDSC501	Introduction to Organ Transplant Procurement	2
HDSC521	Scientific and Clinical Foundations for Human Organ Donation and Transplantation	6
HDSC511	Clinical Practicum I	1
Spring		
HDSC531	Clinical Aspects of Human Organ Procurement	5
HDSC512	Clinical Practicum II	2
Summer		
HDSC513	Clinical Internship	3
HDSC541	Capstone Seminar in Human Donation Science	1

Admission Criteria

Criteria for regular admission are as follows. Applicant not meeting all of these criteria (e.g., GPA <3.0) may be eligible for conditional admission. Admission is for the Fall Semester only and application materials are due on or before June 30th.

To be considered for admission an applicant must:

- Hold a baccalaureate from an accredited college or university with a minimum 3.0 undergraduate grade point average. Degrees in progress will be considered.

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Pathology for Post-Second Year Medical Students Certificate (PATH-C)

- Submit official transcripts from colleges and universities attended
- Provide two letters of recommendation.
- Satisfactorily complete a course in medical terminology or pass a medical terminology proficiency examination. Candidates who are unable to pass the medical terminology proficiency examination will be required to participate in a self-study program and pass a re-test.
- Have successfully completed a minimum of two semesters of courses in the biological sciences and a minimum of one semester of chemistry.
- Complete the online application form and submit the \$45 application fee
- Interview, if requested.

Although not required, shadowing an organ procurement coordinator is highly recommended.



Students in the Pathology Fellowship program are eligible to enroll in this program. The program provides students with an opportunity to engage in an in-depth study of the pathogenesis of disease. In so doing, these students:

- integrate basic science principles with the clinical sciences through participation in the autopsy, surgical pathology sessions and rotations through the clinical laboratories;
- solidify previously learned concepts pertaining to disease mechanisms by teaching medical students and presenting at conferences;
- investigate new frontiers in medicines through research and elective experiences.

Certificate Program Requirements

The certificate curriculum is as follows:

<u>Course #</u>	<u>Course Title</u>	<u>Credits</u>
Fall		
PATH606	Introduction to Surgical Pathology & Cytology	2
PATH607	Introduction to Clinical Laboratory Medicine	2
PATH608	Introduction to Postmortem Pathology	2
PATH689	Independent Study in Pathology	1
Spring		
PATH606	Introduction to Surgical Pathology & Cytology	2
PATH607	Introduction to Clinical Laboratory Medicine	2
PATH608	Introduction to Postmortem Pathology	2
PATH689	Independent Study in Pathology	1
Summer		
PATH606	Introduction to Surgical Pathology & Cytology	2
PATH607	Introduction to Clinical Laboratory Medicine	2
PATH608	Introduction to Postmortem Pathology	2

Students from LCME accredited medical schools who have completed their second year and are in good academic standing are eligible to apply for this program. While the American Board of Pathology gives up to 1 year credit toward certification for time spent as a Fellow, the Fellowship is not limited to those planning to make pathology a career.

The Bioinformatics and Proteomics/Genomics (BPG) certificate program introduces students to the essential and rapidly developing fields of bioinformatics, proteomics and genomics, and provides a core knowledge of analytical approaches used in these fields. The curriculum is designed to complement course work and research of students enrolled in the University of Toledo Ph.D. in Biomedical Sciences programs, but also is open to other qualified students. The program is a joint effort of the University of Toledo Main and Health Science Campuses and Bowling Green State University.

Students enrolled in the certificate program must take four courses covering the following subject areas:

Graduate Bioinformatics and Proteomics/ Genomics Certificate

Certificate Program Requirements

- Introduction to the scope of bioinformatics, proteomics and genomics
- Training in statistical methods used in BPG
- Handling and manipulation of databases, and introduction to computer programming skills needed to manipulate large quantities of nucleic acid and protein sequence data
- Applications of BPG in which faculty members using these approaches will discuss and demonstrate how these techniques are applied to research problems

Upon completion of the program, students will be prepared to use BPG research techniques and will be able to interact with specialists in each BPG subdiscipline.

Curriculum

The curriculum consists of four 3-credit courses, but requires a strong grounding in molecular and cellular biology, which may be fulfilled by successful completion of Molecular Cell Biology (INDI684) or an equivalent.

<u>Course #</u>	<u>Course Title</u>	<u>Credits</u>
Fall Year 1		
INDI684*	Molecular Cell Biology	4
Summer Year 1		
INDI532**	Statistical Methods I	3
Fall Year 2		
BIPG510	Fundamentals of Bioinformatics and Proteomics/Genomics	3
BIPG520	Statistical Methods in Bioinformatics	3
Spring Year 2		
BIPG610	Introduction to Bioinformatic Computation	3
BIPG620	Applications of Bioinformatics and Proteomics/Genomics	3

* INDI684, or an equivalent course approved by the instructor, is a prerequisite for the BPG certificate.

** INDI532, or an equivalent course approved by the instructor, is a prerequisite for BIPG520. INDI532 credit does not count toward the BPG certificate.

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NOTE: Currently enrolled UT Ph.D. in Biomedical Sciences or MSBS students may take individual BPG courses as electives, with permission of the instructor. Application must be filed only for those seeking a certificate.

Admission Criteria

Applicants not currently enrolled in the UT Ph.D. in Biomedical Sciences program must have or submit:

- Earned baccalaureate and GRE, or earned graduate degree from an accredited college or university
- Minimum 3.0 undergraduate GPA; degree in process will be considered
- Minimum GRE 1600 or minimum requirements set for the UT Ph.D. in Biomedical Sciences or MSBS programs
- Official transcripts
- Three letters of recommendation
- Completed electronic application and \$45 application fee

Students currently enrolled in the UT Ph.D. in Biomedical Sciences program must have:

- Good standing in the current degree program
- Letter of request for admittance into the program
- Permission/recommendation of major advisor
- Completed electronic application

All applications will be reviewed by the BPG Program Admissions Committee. Application must be filed only for those seeking a certificate.

Certificate Program Requirements

Graduate Certificate in Anatomic Pathology

The Graduate Certificate in Anatomic Pathology program is a 12-month continuous, intensive curriculum. Graduates look forward to employment in a variety of healthcare settings, including community hospitals, teaching hospitals and private laboratories.

The program includes didactic courses where a foundation of anatomy, histology, physiology, and pathology is built. The practical training experience is conducted throughout the year with the student, under the supervision of attending pathologists, performing autopsies and surgical specimen dissection and description in a manner similar to junior residents in pathology. Students are expected to learn, develop, and master the techniques of anatomic pathology during this portion of the program. An externship at the Lucas County Coroner's Office may be included to provide exposure to forensic pathology and toxicology. Other topics covered include laboratory administration/management, medical ethics, clinical information systems, and gross/microscopic photography techniques.

<u>Course #</u>	<u>Course Title</u>	<u>Credits</u>
Fall		
HDSC521	Scientific & Clinical Foundations for Human Organ Donation & Transplantation	6
	General Pathology	4
Spring		
	Systemic Pathology	5
Summer		
PATH606	Introduction to Surgical Pathology & Cytology	2
PATH608	Introduction to Postmortem Pathology	2
PATH689	Independent Study in Pathology	1

Admission Criteria

Applicants must have:

- Baccalaureate with a major or minor in a biological or allied health field with a 3.0 GPA from the institution granting the baccalaureate

Certificate Program Requirements

- Completed application and \$45 application fee
- Two letters of recommendation
- Official transcripts
- Test of English as a Foreign Language (TOEFL), if applicable