CLINICAL ANATOMY, M.S.

Contact

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Accreditation

UNE is accredited by the New England Commission of Higher Education (NECHE), whose mission is to establish and maintain high standards of education through the doctoral level. Accreditation by NECHE signifies that UNE meets or exceeds those high standards.

Program Description

The M.S. in Clinical Anatomy program offers post-baccalaureate training in the anatomical sciences, a fundamental cornerstone for understanding health and disease. This program will provide students with an in-depth understanding of human anatomy and medical physiology, and the skills to apply this knowledge to teach or work in medical fields. This program has two concentrations. All students completing the program will be knowledgeable in detailed human anatomy, embryology, histology, clinical imaging, and physiology. Completion of the first year courses will provide students with a strong foundation for medical school. The second year courses, depending upon the concentration completed, students will gain additional knowledge and skills to teach these topics to professional students, or to successfully engage in research.

Transfer Credit

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Transfer credits are rarely awarded to students who transfer from another program.

Advanced Standing

No advanced standing available.

Experiential Learning

No credit will be awarded for experiential learning.

Admissions

See Graduate Admissions (https://catalog.une.edu/graduate/admissions/) for more information.

Financial Information

Tuition and Fees

Tuition and fees for subsequent years may vary. Other expenses include books and housing. Please consult this catalog's Financial Information (https://catalog.une.edu/graduate/financial-information-graduate-programs/) page for specific tuition and fees information.

Continued Enrollment

After two academic years, a student who has completed all coursework except their thesis will be required to pay for a minimum of three Thesis credit hours plus mandatory fees each semester to remain in the program.

Other Expenses

Housing is arranged by and financed at the expense of the student. Currently, there is no on-campus housing available for graduate students.

Financial Aid

Detailed information and applications are available on request from the Financial Aid Office. Call (207) 602-2342 or visit the Financial Aid website (https://www.une.edu/sfs/).

Curricular Requirements

Code	Title	Hours
Program Required Courses		
CAN 501	Medical Embryology 1	0.5
CAN 505	Medical Histology 1	1
CAN 510	Medical Imaging 1	1
CAN 515	Medical Gross Anatomy 1	6
CAN 520	Medical Physiology 1	3
CAN 550	Medical Embryology 2	0.5
CAN 555	Medical Histology 2	1
CAN 560	Medical Imaging 2	1
CAN 565	Medical Gross Anatomy 2	6
CAN 570	Medical Physiology 2	3
Select one Clinical Anatomy Concentration below		17.5-20.5
Research Concentration		
Teaching Concentration		
Total Hours		**40.5-43.5**

Concentrations

Research Concentration

Code	Title	Hours
Required Courses		
CAN 600	Medical Neuroscience	2.5
GPH 716	Biostatistics	3
RCA 500	Research 1	1
RCA 550	Research 2	1
RCA 600	Teaching in the Gross Anatomy Lab 1RT	2
RCA 605	Research 3	3
RCA 650	Teaching in Gross Anatomy Lab 2RT	2
RCA 655	Research 4	6
Total Hours		**20.5**

Teaching Concentration

Code	Title	Hours
Required Courses		
CAN 600	Medical Neuroscience	2.5
GPH 716	Biostatistics	3
TCA 600	Teaching in the Gross Anatomy Lab 1	4
TCA 650	Teaching in the Gross Anatomy Lab 2	4
TCA 655	Interprofessional Teaching in the Gross Lab	4
Total Hours		**17.5**

Academic and Technical Standards

Students pursuing a Master of Clinical Anatomy degree (either the two-year teaching concentration or two-year research concentration) will need

to maintain an overall GPA of a B and must pass each course sequentially with a 70% pass minimum.

Learning Outcomes

Upon completion of the program, graduates will be able to:

- Demonstrate an advanced understanding of human anatomy, embryology, histology, and physiology with special emphasis on knowledge relevant to health professionals.
- Describe advanced anatomical knowledge as it relates to clinical imaging studies including fluoroscopy, radiology, CT scans, MRI, venous and arterial studies, cardiac studies, etc.
- Demonstrate interpersonal/interprofessional skills (such as student-staff and peer-peer communication), peer-active teamwork, and collaborative leadership, thereby fostering, identifying, and practicing the professional behavior(s) expected within the healthcare setting.
- Identify relevant landmarks and anatomical structures in the living and cadaveric body.
- Identify selected normal anatomical structures and features on medical images, including X-ray, CT scans, and MRI.
- Define and describe the normal structure and biomechanical function of the musculo-skeletal-fascial system.
- Discuss and integrate a fundamental understanding of structure-function relationships for each area of the body and its relationship to the physical exam.
- Discuss and integrate a fundamental understanding of physiology as it relates to the various organs and structures of the body.

Upon completion of the Teaching concentration, graduates will be able to:

- Exhibit expertise in teaching gross dissection/prosection and assessing learning among health profession students and health professionals.

Upon completion of the Research concentration, graduates will be able to:

- Develop skills in hypothesis formulation, experimental design/methods, data/statistical analysis, and dissemination of results through participation in research.
- Perform research and communicate research outcomes through various biomedical communication strategies, including but not limited to peer-reviewed publications, posters, and presentations.