

Allied Health Programs – Affiliated Programs

Click on a program to view the program description.

[Athletic Trainer Internship](#)

[Audiology](#)

[Child Life \(Inactive\)](#)

[Cardiovascular Perfusion](#)

[Dietetic Technology](#)

[Center for Athletic Perf, Exercise Physiology](#)

[Genetic Counseling Internship](#)

[Health Information Management](#)

[Masters, Internship in Community Counseling](#)

[Nuclear Medicine Technology](#)

[Nurse Anesthesia](#)

[Occupational Therapy](#)

[Paramedic Student Clinical Experience](#)

[Patient Education](#)

[Pharmacy, Doctor of, Student Clerkships](#)

[Pharmacy Internships](#)

[Physical Therapy](#)

[Preventive Cardiac and Rehabilitation](#)

[Psychiatric Occupational Therapy](#)

[RN First Assist \(Inactive\)](#)

[Sports Health: Orthopaedic Rehabilitation](#)

[Radiologic Technology/Mammography/CT/MRI/Diagnostic Medical Sonography
\(Ultrasound\)/ Medical Imaging](#)

[Respiratory Therapy](#)

[Respiratory Therapy Cardiovascular Anesthesiology](#)

[Social Work](#)

[Vascular Ultrasound Externship](#)

Audiology

Audiology is the health care profession devoted to hearing. Audiologists are allied health professionals that specialize in the identification and treatment of hearing loss. It is very common for people to develop hearing loss as they get older. As a result of hearing loss, elderly people can have difficulty communicating with friends and family. An audiologist can identify the hearing loss and make the appropriate recommendations for amplification, allowing the patient to communicate more easily with family and friends. Audiologists also work with children who have hearing loss. Hearing loss in a child can affect the child's ability to learn speech and language. Audiologists identify and then appropriately treat the hearing loss, allowing the child access to auditory information and therefore the ability to learn speech and language.

Audiologists use assistive listening devices, FM systems, hearing aids and cochlear implants to help patients with hearing loss. They also perform a variety of tests to access the entire auditory system. Audiologists work in hospitals, schools, private practices, and otolaryngology offices.

The field of audiology recently moved to a doctoral degree as the entry level of education for incoming audiologists. It is known as the Doctor of Audiology or Au.D. As a training institution, The Cleveland Clinic has always helped to educate Master's and Doctoral level audiologists with student internships and fellowships. In 2005, The Cleveland Clinic became a partner in the Northeast Ohio Au.D. Consortium (NOAC) program with the University of Akron and Kent State University.

For additional details please contact the audiology section at (216) 445-5370.

Child Life Internship

The child life worker strives to promote optimum development of children, adolescents and families to maintain normal living patterns, minimize psychological trauma and prevent adverse reactions to hospitalization.

The Cleveland Clinic provides internship-type clinical training for senior or graduate students in an approved baccalaureate child life training program.

Through the Department of Social Work, the Child Life Department is affiliated with the University of Akron and Kent State University and other universities with Child Life Training Programs. For additional details, please contact the Child Life Department at (216) 444-5059.

THE CLEVELAND SCHOOL OF PERFUSION SCIENCE

Cleveland State University and The Cleveland Clinic Foundation's Collaborative Perfusion Education Program

BACHELOR OF SCIENCE: CARDIOVASCULAR PERFUSION

Cardiovascular Perfusion is an allied health profession. Perfusionists use heart-lung machines and other technologies to maintain the health of patients during heart surgery and other medical procedures.

The Cleveland School of Perfusion Science provides a complete 4-year Bachelor of Science degree and Clinical Certification. The school is a collaboration between the Cleveland Clinic Foundation and Cleveland State University, and is fully accredited.

The first five semesters consist of carefully chosen prerequisite courses, available to all students at Cleveland State University.

The last three semesters are devoted to perfusion-specific courses which include clinical experience at the Cleveland Clinic Heart Center. These last three semesters are available to students accepted into **The Cleveland School of Perfusion Science**.

Admission to this school is open to students who will have completed the necessary prerequisite courses before January 1st of the following year and who have either an overall GPA of 3.0 or a GPA of 3.0 in specific prerequisite courses, and who are otherwise qualified.

Transfer students, including those who have earned a degree in another field, may find that they have completed many of these prerequisite classes.

All classes will be held at CSU or at nearby Cleveland Clinic Heart Center locations. Once accepted, a student will not be required to travel out of the area for either didactic or clinical classes.

All undergraduate courses, including clinical training, are CSU courses, eligible for normal student aid / financial assistance.

For admission or to make an appointment with an academic advisor call Cleveland State University, Department of Health Sciences (216) 687-3567.

At the Cleveland Clinic Foundation, contact: Robert Farrow, CCP, Program Coordinator at (216)-444-3895 / farrowr@ccf.org

PATIENT EDUCATION

The Department of Patient Education and Health Information offers internship positions to undergraduate students majoring in Community Health Education or Health Promotion, and to graduate students studying public health, community health education, and adult learning. The students obtain knowledge and experience in areas including planning, implementing, and evaluating free public seminars, writing handouts, researching and designing posters, and working in a web-based Health Information Center. For further information, please contact Arlene Silver-Cook, M.Ed., MBA at 216/444-3054.

Doctor of Pharmacy Student Clinical Rotations

Introduction

The Cleveland Clinic Foundation (CCF) Pharmacy Department serves as an educational site for undergraduate and doctorate students and has an affiliation with The Ohio State University, The University of Toledo, and Ohio Northern University. Students have the opportunity to participate in a variety of rotations and programs at CCF to gain experience, build knowledge base, and develop skills necessary to grow as practitioners. Individuals within the department serve as mentors or preceptors for the students. Support is also provided from medical, nursing, and allied health professionals.

Pharmacy Students

A variety of inpatient clinical pharmacy practice and ambulatory care experiential rotations are available for doctorate of pharmacy (Pharm.D.) students. These Clinical Clerkship rotations are designed to advance knowledge base and skill level of students in such areas as cost-effective drug selection and rationale drug therapy, monitoring therapy and response, pharmacokinetic principles, avoidance and minimization of adverse events, drug information, education, and verbal and written communication.

Contact Information

For further information regarding Clinical Clerkship rotations, please contact Dina Hunsinger-Norris, Pharm.D., BCPS at (216) 444-6489 or Email: norrisd@ccf.org

Sports Physiology Internship

Candidates for this internship must be enrolled in a master's degree program in exercise physiology or the equivalent.

This program is affiliated with (but not limited to) Cleveland State University.

For additional details, please contact the Section of Sports Medicine at (216) 520-3784.

Genetic Counseling Internship

Genetic counselors are health professionals with specialized graduate degrees and experience in the areas of medical genetics and counseling. Most enter the field from a variety of disciplines, including biology and psychology. Genetic counselors work as members of a health care team, providing information and support to families who have members with birth defects or genetic disorders and to families who may be at risk for a variety of inherited conditions. They identify families at risk, investigate the problem present in the family, interpret information about the disorder, analyze inheritance patterns and risks of recurrence, and review available options with the family. Genetic counselors also provide supportive counseling to families, serve as patient advocates and refer individuals and families to support services. They serve as educators and resources for other health care professionals and for the general public. Some counselors also work in administrative capacities while others engage in research activities related to the field of medical genetics and genetic counseling.

Internships in genetic counseling are requirements for graduation with a Master of Science degree for students enrolled in a Genetic Counseling Training Program. The Genetic Counseling Internship in the Medical Genetics Program of the Cleveland Clinic provides students from these training programs with supervised clinical genetic counseling experience and training.

The Genetic Counseling Internship is affiliated with Northwestern University and is currently pursuing an affiliation with the University of Cincinnati. For additional information, please contact the Medical Genetics program at (216) 445-5685.

Medical Record Administration

Students enrolled in a Medical Record Administration Program or Health Information Management Program are able to participate in the Cleveland Clinic Foundation's Clinical Affiliation Program. The Clinical Management Affiliation is designed to provide the student an opportunity to apply managerial techniques in the organization and administration of a Medical Record Department.

For additional details, please contact the Department of Health Data Services at (216) 444-6291, or Erica Foster at 444-6296, fostere@ccf.org.

Medical Record Technology

In conjunction with Cuyahoga Community College, the Cleveland Clinic offers a ten-week program (two days per week) to provide practical experience in the technical aspects of medical record science. A student must have completed one year of the Medical Records Technology Program at the college before participating in this clinical affiliation.

For additional details, please contact the Department of Health Data Services at (216) 444-6291 or Erica Foster at 444-6296, fostere@ccf.org.

COMMUNITY COUNSELING INTERNSHIP

The Department of Psychiatry and Psychology provides internship opportunities for students nearing completion of Masters degree programs in Community Counseling. The Cleveland Clinic currently is an approved internship site for two area Masters programs both of which are accredited by the Council for the Accreditation of Counseling and Related Education Programs (CACREP). The internship program fulfills the final experiential component required for licensure in the State of Ohio as a Professional Counselor (PC).

Individual internship programs are structured to include 600 hours of on-site time with a minimum of 240 hours in direct patient service. A holistic, wellness and developmental perspective towards counseling is utilized. The internship program addresses core competencies of counseling: interviewing, diagnosis and assessment, treatment planning, documentation, and professional, ethical and legal aspects of the counseling profession. The approach of this program is highly collaborative and team-based allowing the intern to work with a wide range of hospital personnel, including psychiatrists and physicians, psychologists, counselors, social workers, and psychiatry and medical residents. Interns are encouraged to participate in educational and training opportunities provided by the Department of Psychiatry and Psychology. Interns are supervised by a Professional Clinical Counselor (PCC-S)/Psychologist.

Interns rotate among three practice areas. The time spent varies according to the interest and needs of the intern:

- **General and Health Psychology**
The intern provides assessment, diagnosis, treatment planning, and follow-up individual counseling sessions. Counseling services are directed to the adult outpatient population.
- **Psychiatric Consultation Liaison (CL Team)**
The intern joins a multidisciplinary team requested for a consult for medical and/or surgical patients. The intern assists psychiatry and medical residents in completing initial assessments of patients, rounds with the staff psychiatrist, and performs individual supportive counseling to patients.
- **Alcohol and Drug Recovery Center (ADRC)**
The intern leads twice weekly didactic and experiential stress management and relaxation groups. The intern also observes or participates in chemical dependency assessments and provides supportive counseling.

For more information, contact Karen Broer, PhD, Director, at (216) 444-0480 or by e-mail at broerk@ccf.org.

Nuclear Medicine Technology

The Cleveland Clinic Foundation clinical training program in Nuclear Medicine is designed to meet the clinical requirements for students in Nuclear Medicine who have successfully completed their didactic training at the Nuclear Medicine Institute in Findlay, Ohio, a CCF affiliate.

During the eight-month program, students will gain hands-on experience in the performance of imaging procedures, computer processing, quality control of equipment and in the proper use and handling of radioactive products. The CCF Nuclear Medicine Department has a wide variety of state-of-the-art equipment, a radiopharmacy lab and a well-trained staff with many years of experience.

For additional information, please contact (216) 444-2950.

Nurse Anesthesia

The Cleveland Clinic Foundation/Frances Payne Bolton School of Nursing/Case Western Reserve University School of Nurse Anesthesia is a 28-month, intensive program affiliated with Frances Payne Bolton School of Nursing at Case Western Reserve University that prepares registered nurses to become Certified Registered Nurse Anesthetists (CRNA).

Graduate students in nurse anesthesia are trained to administer anesthesia in all of the surgical specialties implementing the techniques of both general and regional anesthesia. This graduate nursing program is composed of study in nursing research, professional development, and nurse anesthesia based on knowledge of the basic sciences.

Applicants must be registered nurses (RN) licensed in the state of Ohio and possess a baccalaureate degree in nursing (BSN). A minimum of one year of acute care nursing experience is required. Five graduate nursing courses are taught at Frances Payne Bolton School of Nursing. Nurse anesthesia courses, both didactic and clinical, are taught by CRNAs, anesthesiologists, and guest faculty from the Cleveland Clinic Foundation.

Upon completion of the program, a Master of Science degree in nursing is awarded by the University and a certificate is awarded from the hospital. Graduates are eligible to take the national certification examination.

For more details about the program, please call the School of Nurse Anesthesia at 216-444-6547, or for application requests call Frances Payne Bolton School of Nursing at 216-368-2529 or 1-800-825-2540, X2529.

Occupational Therapy

The profession of Occupational Therapy is concerned with lives that have been disrupted by physical injury or accident, effects of a disease process, birth defects, aging, emotional or developmental problems.

Occupational Therapy translates an individual's ability, regardless of limitation, into activities that are personally fulfilling.

Occupational Therapy incorporates knowledge of disabling conditions to help individuals regain their well being and human "occupations". Occupation is being occupied in meaningful day-to-day living activities including work, school, leisure, plan and self-care.

The emphasis of Occupational Therapy at CCF is to help adults and children reach their highest functioning levels possible, to become self-reliant and to build a balanced life-style of work and leisure.

The Cleveland Clinic Foundation serves as a clinical site for students enrolled in an occupational therapy program. This rotation is available to junior and senior level students in associate, baccalaureate and master degree programs.

The Cleveland Clinic Occupational Therapy Department has formal affiliations with Cuyahoga Community College, Stark Technical College, Cleveland State University, Ohio State University, The Medical College of Ohio at Toledo, University of North Carolina at Chapel Hill, Eastern Michigan University, University of Pittsburgh, Rush University and Tuskegee University in Alabama.

For more information, please contact the Occupational Therapy Department's Educational Coordinator at (216) 445-6725.

Pharmacy Internships

Introduction

Eligible pharmacy students may apply to work as Pharmacy Interns (through the Pharmacy Internship program) to gain valuable "on the job" experience under the supervision of a registered pharmacist. High school students, through a partnership with CCF and John Hay High School, have the opportunity to learn more about various professions and participate in a "work experience" program with several departments, including the Department of Pharmacy.

Pharmacy Internship

Pharmacy students meeting the requirements needed to work as a Pharmacy Intern (established through the Ohio State Board of Pharmacy) can apply for a Pharmacy Internship at CCF. Students will be exposed to a broad range of distributive and clinical functions performed by Pharmacy personnel. Students will also learn techniques for sterile and non-sterile compounding of dosage forms, gain experience in drug information and educational programs, and attend pharmacy meetings, seminars, and clinical conferences in addition to other activities.

High School Students

Students participating in the John Hay/CCF partnership coming to the Pharmacy Department will learn about pharmacy as a profession, shadow hospital pharmacists, and assist in operational functions over an 8-week period.

Contact Information

For information regarding experiences for High School students, Pharmacy Internship, or other student opportunities, please contact Collette Jones, R.Ph. at (216) 445-7250 or Email: jonesc1@ccf.org

Physical Therapy

Physical Therapy is a health-care profession that helps people to lead more active and independent lives by improving movement and function and by relieving pain. Physical therapists test muscle strength, the amount of motion in joints, and the ability to walk or move. Treatment may then include exercises to increase strength, endurance, coordination and range of motion; the use of heat, cold, water or electricity to relieve pain; and teaching ways to avoid injury or to regain function.

Physical therapists work not only in hospitals but also in sports medicine, home health, nursing homes, school systems and private offices. There are many jobs currently available in the field of Physical Therapy, and an increasing demand for therapists is predicted.

The Cleveland Clinic serves as a clinical site for students enrolled in physical therapy programs at affiliating universities. This clinical rotation is available to junior and senior level students enrolled in associate, baccalaureate, and master degree programs. The Cleveland Clinic has formal affiliations with Cuyahoga Community College, Cleveland State University, The Ohio State University, Ohio University, The Medical College of Ohio, The University of Pittsburgh, The University of Indianapolis, The Chicago Medical School, Northwestern University Medical School, Duquesne University, and Gannon University.

This rotation provides students with clinical experience in acute care physical therapy, outpatient physical therapy, and inpatient rehabilitation physical therapy.

For additional details, please contact the Physical Therapy Department's Education Coordinator at (216) 444-6572.

Preventive Cardiology and Rehabilitation

Be a part of the #1 Heart Center for 11 consecutive years!! The Cleveland Clinic Foundation Cardiac Rehabilitation department offers 3 spaces for 2 six month internships.

Our internship program is a comprehensive program, which allows students in the fields of exercise physiology or related disciplines to apply the principles of cardiac rehabilitation and graded exercise testing in a clinical cardiology setting. Over a six-month period of time, the intern receives hands-on experience in the areas of Phase I, II, and III cardiac rehabilitation and stress testing. The program also incorporates observations in the Catheterization lab, electrophysiology lab, echocardiography, and surgery.

The program is designed to provide the necessary clinical experience and skills to qualify the student to apply for the American College of Sports Medicine Exercise Specialist Certification. Didactic lectures, written assignments, case study presentations and two preparatory exams for the ACSM certification are among the internship offerings. Master's Degree candidates are preferred, but undergraduate students will be considered for a three-month internship if qualified and space permits.

Intern candidates should have completed all academic course requirements to include course work in exercise physiology, 12-lead electrocardiogram interpretation, and exercise testing and prescription.

Contact: The Cleveland Clinic Foundation
Preventive Cardiology and Rehabilitation Desk C51
Attn: Michael Crawford
9500 Euclid Ave.
Cleveland, OH 44195
Tel. (216) 444-1869
E-mail: crawfom2@ccf.org
Fax: (216) 444-4672

Nurse Clinician Services

Cardiovascular and Thoracic Surgery Nurse Clinician Services

As part of the Cleveland Clinic Heart Center team, Nurse Clinician Services (NCS) offers one of the most technically challenging, professionally rewarding opportunities in patient care. NCS personnel are an integral part of open heart and thoracic surgery at every stage. From harvesting veins, to managing one of the highest patient volumes in the world, the NCS team is on the front line of surgical care.

R.N. First Assistant in Cardiovascular Surgery

Core Curriculum for the RN First Assistants

This course prepares students to pass the certification examination given by the Certification Board Perioperative Nursing (CBPN). Taught by Cleveland Clinic Nurse Clinician personnel, in affiliation with Lorain Community College, the course is approved for college credit. Classes are held at the Cleveland Clinic Foundation and at the Lorain Community College campus. The forty hours of clinical time is flexible.

For any additional information you may contact:

Robbi Cwynar, BSN, RN,C
Education Coordinator, Nurse Clinician Services - G30
Department of Thoracic and Cardiovascular Surgery
Cleveland Clinic Foundation
Phone: 216-444-0841
or 1-800-223-2273 x40841
cwynarr@ccf.org

Donna Zabell, RN, BA, CNA
Manager, Nurse Clinician Services - G30
Department of Thoracic and Cardiovascular Surgery
Cleveland Clinic Foundation
Phone: 216-444-6526
or 1-800-223-2273 x46526
zabell@ccf.org

Overview of the Department of Nurse Clinician Services

The Department of Nurse Clinician Services is a multi-functional support system for the Department of Thoracic and Cardiovascular Surgery, within the Cleveland Clinic Heart Center. It is composed of RNFA's, PA's, SA's, Nurse Practitioners, and Nurse Clinicians. The mission of the department is to provide perioperative continuity of care for the patient undergoing Thoracic and Cardiovascular surgery.

The Intraoperative role includes: patient assessment, conduit harvesting, first and second assisting, femoral artery exposure, IABP insertion and maintenance, and assist device assembly.



The Preop and TCI roles involve evaluation of outpatient and in-house patients; reviewing history, ordering and evaluating tests, preoperative education, and preparing the patient for their impending surgery, all according to specific surgeon preferences.

The Scheduling Officers' role is to assemble the daily surgical schedule. They are responsible for reviewing all the preoperative and TCI data, then in consultation with the surgeon, determine which patients are ready to be placed on the surgical schedule.



The Postoperative role involves daily evaluation of all postoperative patients, both in the CVICU and on the postop units. They are responsible for maintaining communication with the surgeon and resident staff.

The Heart Failure Team is involved with the perioperative care and education of all heart transplant, and assist device patients. They are educated in the insertion and maintenance of many types of assist devices.

The Department of Nurse Clinicians Services in association with Lorain County Community College offers the Core Curriculum for the RN First Assistant. This course follows AORN guidelines and is approved by the Certification Board of PeriOperative Nursing.



INTRAOPERATIVE

Nurse Clinician Services provides key support and assistance during operations. Formally trained **Registered Nurse First Assistants (RNFA)**, **Physician Assistants (PA)** and **Surgical Assistants (SA)** perform duties that include

- Harvesting conduit for bypass
- Cannulating the femoral artery if needed
- Assisting with intra-aortic bypass pump (IABP) insertion and management of the IABP in the operating room
- First assist during all thoracic procedures
- Complete Responsibilities (see below)

Intraoperative Responsibilities of Nurse Clinician Services

The Intraoperative role for the Department of Nurse Clinician Services is filled by formally trained personnel: RNFA's, PA's, and SA's.

The responsibilities of this role include:

- preparation of the surgical suite with all necessary equipment
- a thorough chart review prior to anesthesia induction, with identification of potential problems
- a thorough knowledge of surgical anatomy to include:
 - cardiac
 - thoracic
 - greater saphenous system
 - lesser saphenous system
 - volar forearm, and radial artery
 - femoral artery, vein, and associated structures
 - subclavian artery, vein, and associated structures
- correct positioning, prepping, and draping per individual surgeon's preference
- a thorough knowledge of surgical asepsis
- knowledge and proper use of surgical instrumentation
- display of manual skills necessary for atraumatic procurement of:
 - greater saphenous vein,
 - lesser saphenous vein
 - radial artery
 - other alternative conduits
- establishing hemostasis, identifying various tissue layers, and aesthetically closing incisional wounds utilizing appropriate suture material
- displaying manual skills necessary for the exposure, isolation, cannulation, decannulation, and repair of the femoral artery and/or vein with subsequent closure of the incisional site
- knowledge of the surgical preferences of each staff surgeon

- knowledge and ability to provide first and second assistance during all cardiac/thoracic cases
- knowledge in the use and setup of the various types of cardioplegia
- knowledge in the theoretical, clinical, and surgical indications/contraindications for IABP therapy, along with proficiency in operating and maintaining IABP
- ensuring the smooth and safe transportation of the patient from the O.R. suite to the CVICU
- operating room leadership
- being a surgical preceptor for RNFA, PA, and SA students

PRE AND POSTOPERATIVE

Before surgery, Nurse Clinician Services provides clinical assessment of the in-house patient. After surgery, NCS clinically follows patients from admission to the CVICU to discharge

- Complete Responsibilities (see below)



Pre and Post-Operative Responsibilities of Nurse Clinician Services

The **Preoperative** role for the Department of Nurse Clinician Services involves clinical assessment of the in-house patient preoperatively.

The responsibilities of this role include:

- organizing time and surgical assignments
- thorough chart review
- review, evaluation, and reorder of any tests, CXR's, ECG's, and lab results as needed
- eliciting an appropriate medical history
- performing an abbreviated physical exam
- knowledge ability in the clinical preferences of each staff surgeon
- reporting abnormal findings and suspected surgical contraindications to the Scheduling Officer
- providing comprehensive instructions and education to the patients and their families
- obtaining patient signature for all investigational studies

The **Postoperative** role for the Department of Nurse Clinician Services involves clinically following the patients from admission to the CVICU immediately postop, to discharge. The responsibilities of this role include:

- comprehensive chart review with assessment of postoperative testing and laboratory values, and communication to staff surgeon or surgical resident any deviations.
- assessment and evaluation of each patients postoperative medical progress, and documentation of such in progress note
- knowledge of the clinical preferences of each staff surgeon
- knowledge of pharmacological patient management, including drug interactions and contraindications
- ability to manage hemodynamic stabilization of patient arriving in the CVICU
- assisting staff surgeon and surgical resident during daily patient rounds, and providing a thorough and accurate patient status report
- technical competence in removal of all invasive tubes
- setup, insertion, operation, and maintenance of the IABP

- functional working knowledge of pacemaker therapy
- aseptic surgical wound care and dressing changes
- providing direct assistance during thoracentesis, chest tube insertion, and various open- chest procedures
- initiation of CPR
- participation in informal patient education, consultation, and support
- presentation of a comprehensive home-going instructional class



SCHEDULING AND TCI

Nurse Clinician Services performs preoperative assessment and evaluation of to-come-in (TCI) patients in an outpatient setting. The Scheduling Officer reviews the preoperative and TCI data and, in consultation with surgeons, assembles the daily surgical schedule.

- Complete Responsibilities (see below)

Responsibilities of Nurse Clinician Services in TCI and Scheduling

The TCI role for the Department of Nurse Clinician Services involves preoperative assessment and evaluation of TCI (to-come-in) patients in an outpatient setting.

The responsibilities of this role include:

- a thorough review of the patient chart
- obtain, review, and order any tests
- elicit an appropriate medical history
- perform an abbreviated physical exam
- complete patient census card and transcribe standing preoperative orders
- assemble information in patient's chart and coordinates delivery to TCI
- report abnormal findings and surgical contraindications to the Scheduling Officer knowledgeable in the preferences of each staff surgeon
- coordinate scheduling of off-service consults
- facilitate preoperative anesthesia clearance
- arrange and facilitate the surgeon/patient interview process
- provide comprehensive instructions and education to the patients and their families
- present complete and accurate report to the Scheduling Officer
- obtain patient signature for all investigational studies
- acts as patient advocate and liaison
- The Scheduling Officers' role for the Department of Nurse Clinician Services involves the review of preoperative and TCI data. Then, in consultation with the department's staff surgeons, assemble the daily surgical schedule. The responsibilities of this role include:
 - evaluation of each prospective candidate prior to surgery
 - review and assess all pertinent test results, and reorders
 - document clinical findings into patient progress notes
 - communicate with staff surgeon, residents, cardiologists, cardiac surgical support services and the various allied health services, providing appropriate patient surgical scheduling information
 - coordinate the daily/weekly cardio-thoracic surgical schedule with each staff surgeon

- coordinate surgical intervention and/or medical therapy with the appropriate consulting service
- familiar with surgical and clinical preferences of individual staff surgeons
- directs and supervises the work assignments of the preoperative clinicians
- resource person for preoperative clinician
- provide instruction, pertinent scheduling information, and support to the patients and their families
- obtain potential TCI candidates from the OPD
- assist associate staff in developing workable and functional surgical assignments

HEART FAILURE TEAM

The Heart Failure Team collaborates in the perioperative care and education of all heart transplant, and assist device patients. The Cleveland Clinic Heart Center has among the world's largest experiences in the innovation, testing and use of cardiac assist devices. The Heart Failure Team

- Evaluates high-risk heart failure patients
- Provides intraoperative support for implantation devices
- Manages postoperative heart failure patients
- Coordinates post-discharge care for device patients.
- Complete Responsibilities (see below)

The responsibilities of this role include:

- performing physical examinations and special procedures within prescribed guidelines and instructions of a physician
- participation in the development of the medical and nursing care plans
- coordinating care with other specialty areas when necessary
- ordering, interpreting, and evaluating laboratory tests

and other diagnostic studies to identify and assess patient clinical problems and health care needs

- participation in medical team rounds, collaborating with Medical Staff to ensure quality patient care
- preparation of progress notes, admission, and discharge summaries
- assisting medical staff with patient education
- making adjustments to devices, and assures device maintenance
- acting as a patient advocate and liaison between patient, family, and the health care team
- utilizing resources effectively to assure quality patient care
- assists support staff and patient scheduling to insure that the patient's needs are met
- Gatekeeper to the Surgical Heart Failure programs
- lectures on programs as required
- participates and/or assists with clinical research projects
- serves as a clinical preceptor within the specialty area

Sports Health & Orthopaedic Rehabilitation

Physical Therapy is a health-care profession which helps people to lead more active and independent lives by improving movement and function and by relieving pain. Physical therapists test muscle strength, the amount of motion in joints, and the ability to walk or move. Treatments include exercises to increase strength, flexibility, endurance, coordination and range of motion; the use of heat, cold, electricity or even aquatics to relieve pain; and teaching exercises and body mechanics to avoid injury or to regain function.

Physical Therapists and Physical Therapy Assistants work not only in hospitals but also in sports medicine, home health, nursing homes, school systems and private offices. There are many jobs currently available in the field of Physical Therapy, and an increasing demand for therapists is predicted.

The Cleveland Clinic Foundation and its multiple Family Health Centers in the suburbs serves as clinical sites for students enrolled in Physical Therapy and Physical Therapy Assistant programs at affiliating universities. Clinical rotations are available to senior level students enrolled in Associate degree programs for PTA, Master and Doctorate degree programs for PT. The Cleveland Clinic has formal affiliations with Cuyahoga Community College (PTA), [Cleveland State University](#), [The Ohio State University](#), [Ohio University](#), [The Medical College of Ohio](#), [Northwestern University Medical School](#), [Duquesne University](#), Slippery Rock, Andrews University, LCCC (PTA), College of Mount St. Joseph's, University of Missouri-Columbia, Youngstown State University, Mercyhurst Northeast College (PTA), Daemen College, Texas Womens University, Thomas Jefferson University, Boston University, Findlay University, Walsh University, Belmont University, University of Maryland, Kent State University (PTA), and Shenandoah University.

Rotations in Sports Health provides students with clinical experience in outpatient physical therapy in sports medicine and orthopaedics including post operative shoulder and knee surgeries, neck and back spine patients, total joint replacements, work injuries, and general orthopaedic injuries. Our professional staff include physical therapists, physical therapy assistants, as well as athletic trainers. Students have educational opportunity to observe surgical procedures, High school and Professional sporting event coverage, aquatic therapy, Case Presentations, as well as Brace Fittings.

For additional details, please contact the Sports Health & Orthopaedic Rehabilitation Physical Therapy Department's Education Coordinator, Chrindye Dietz, PT, CCCE at (440) 899-5625.

Radiologic Technology

Imaging technologists combine sophisticated medical imaging technology and human compassion to create images used to diagnose and treat a variety of medical conditions. The Cleveland Clinic Foundation's Division of Radiology provides comprehensive clinical experience in many radiologic specialties including radiography, diagnostic medical sonography (ultrasound), computed tomography, magnetic resonance imaging, mammography and nuclear medicine.

Individuals seeking clinical experience at the Cleveland Clinic first must be enrolled in one of the affiliated educational programs listed below. Please note that it is the educational program that determines a student's clinical placement. For more information about a specific program, contact the program directly at the number listed below or explore its' website.

Radiologic Technology Programs

Cuyahoga Community College	(216) 987-4247 www.tri-c.edu/radiography/
Lorain County Community College	1-800-995-LCCC www.lorainccc.edu
School of Diagnostic Imaging, Cleveland Clinic Health System (This program is located at the Euclid Hospital Health Center in Euclid, Ohio.)	(216) 692-8708

Diagnostic Medical Sonography Programs

Cuyahoga Community College	(216) 987-4247 www.tri-c.cc.oh.us/DMS/
Lorain County Community College	1-800-995-LCCC www.lorainccc.edu

Nuclear Medicine Programs

Cuyahoga Community College	(216) 987-4247 www.tri-c.cc.oh.us/NMED/
Nuclear Medicine Institute at the University of Findlay	(419) 424-4708 www.findlay.edu/nmiweb
Wheeling Jesuit University	1-800-624-6992 www.wju.edu

Computed Tomography (CT) / Magnetic Resonance Imaging (MRI) Programs

Individuals pursuing these specialty programs must be registered technologists.

School of Diagnostic Imaging,
Cleveland Clinic Health System (216) 692-7523
(This program is located at the Euclid Hospital Health Center in Euclid, Ohio.)

Lakeland Community College (440) 953-7100
www.lakelandcc.edu/academic/sh/rad

Mammography Program

Individuals pursuing this specialty programs must be registered technologists

Cuyahoga Community College (216) 987-4247
www.tri-c.edu/radiography/

Websites for Additional Career and Educational Information

Additional career information and a nationwide list of educational programs can be obtained by searching the websites of the professional organizations listed below.

American Society of
Radiologic Technologists www.asrt.org

American Society for Diagnostic
Medical Sonographers www.sdms.org

Society for Nuclear Medicine www.snm.org

Respiratory Therapy

Respiratory Therapists are trained to aid physicians in the evaluation, diagnosis and care of patients with cardiopulmonary problems. Such patients include those with emphysema, asthma, bronchitis, pneumonia, cardiac failure and chest trauma. Therapists perform a variety of procedures such as medication and aerosol therapy, oxygen therapy, blood gas determinations, mechanical ventilation and maneuvers designed to facilitate removal of secretions from the lungs.

The Cleveland Clinic Foundation is affiliated with three respiratory programs. A two year Associate in Science Degree program at Cuyahoga Community College, a two year Associate in Science Degree program at Lakeland Community College, and a four year Bachelor of Science Degree program at The Ohio State University. Minimum qualifications for the two year programs are a high school diploma with a grade point average of 2.0 or greater and three prerequisite courses in chemistry, algebra and medical terminology. Please call 216/444-8338 for more information.

Cardiothoracic Anesthesia

The department of Cardiothoracic Anesthesia Respiratory Care Services recently established an affiliation with Bowling Green University/ Firelands College. The school offers a two year Associates Degree Program. Minimum qualifications for the two year program are a high school diploma with a grade point average of 2.0 or greater. Please contact the department of Cardiothoracic Anesthesia Respiratory Care Services at (216) 444-2920 with questions.

Social Work Program

The Social Work Department provides opportunities for students pursuing bachelor, masters or doctoral degrees in social work to gain experience in the practice of social work and social work research. The Social Work Department is currently affiliated with three schools of social work which are accredited by the Council on Social Work Education: the [Mandel School of Applied Social Sciences](#) of Case Western Reserve University (Master's and PhD level); [Cleveland State University](#) (Bachelor and Master's level); University of Akron (Bachelor and Master's level) [Ursuline College](#) (Bachelor level).

Applicants must be enrolled in one of the above schools and referred by their field instruction coordinators. Field experience in the Social Work Department at the Cleveland Clinic Foundation includes individual, family and group interventions in a variety of clinical specialties such as oncology, pediatrics, transplantation, medicine and surgery (both hospital and ambulatory patients).

Students are encouraged to participate in organizational improvement activities, research, a variety of educational opportunities and community services. A monthly student seminar provides the opportunity for case discussion and presentations by experienced social work staff.

For more information, call the Social Work Department at (216) 444-6552 or visit the web site at <http://www.clevelandclinic.org/socialwork/studentprogram.htm>.

Vascular Ultrasound Externship

The Vascular Laboratory at the Cleveland Clinic Foundation is a clinical affiliate with Oregon Institute of Technology. We work together to prepare students clinically in the field of Vascular Technology. The Vascular Laboratory performs non invasive studies such as ultrasound and pulse volume recordings to detect vascular disease. Our externship program accepts students in their fourth year in which to complete their bachelor's degree. You will need to apply to OIT to participate in this program.

For more information, please contact:

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