

# ***Student Handbook***

## ***Post-Professional***

### ***Masters in Cardiovascular Perfusion***

#### ***2020-2021***



Department of Health Professions  
College of Health Professions  
Medical University of South Carolina

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## INTRODUCTION

The Cardiovascular Perfusion Program at MUSC (formerly known as Extracorporeal Circulation Technology) was founded in 1979 by James P. Dearing. Jim Dearing entered the health care profession at a time when open-heart surgery was in its infancy. Through both talent and hard work, he became one of the founding fathers of the perfusion profession. At the time of his entry into perfusion, there were few academic credentials available. Before coming to MUSC, he established the first academic-based perfusion program in the country at Ohio State University.

Jim Dearing worked to establish credentials so that perfusionists would be recognized as health care professionals. For his lifetime of work, he was awarded the John H. Gibbon, M.D. award in 1987. After years of outstanding service to the Medical University of South Carolina, he was awarded the rank of full professor. His lasting "tree of influence" can be seen today in the numerous students and alumni of the MUSC Cardiovascular Perfusion Program.

The Post Professional Cardiovascular Perfusion program was launched in 2016 to provide practicing perfusionists the opportunity to advance their educational and professional goals. New technologies and surgical procedures require that practicing certified clinical perfusionists (C.C.P.) have an increased knowledge base for managing both neonates and elderly patients with complex medical conditions as well as the application of new cardiac assist devices. Leadership skills are becoming more essential as an increased number of practicing cardiovascular perfusionists attain leadership roles. This graduate level program will provide a plan of study that includes coursework and a capstone research project that is designed to address these requirements.

# **CARDIOVASCULAR PERFUSION PROGRAM**

## **MISSION STATEMENT**

The Master of Science in Cardiovascular Perfusion Post Professional program prepares practicing Certified Clinical Perfusionists to provide safe quality patient care and to improve the health and quality of life for the citizens of South Carolina and beyond. The program contributes to the mission of the university by educating students in the advanced practice areas of pediatric and elderly patients, ventricular assist devices and leadership.

## **CARDIOVASCULAR PERFUSION PROGRAM GOALS**

At the completion of the program, all graduates will be able to:

1. Demonstrate advanced knowledge in the areas of pediatric and elderly perfusion, ventricular assist devices, leadership and quality improvement and research methodology.
2. Satisfactory achievement of the master's research project. Students will be evaluated on their ability to review the literature, plan, execute the research project and submit for publication. The CVP faculty and their advisory research committees will serve as the evaluators. Successful completion of the project will be a condition of eligibility for graduation.

# **GENERAL INFORMATION**

## **DEPARTMENT OF HEALTH PROFESSIONS**

The Division of Cardiovascular Perfusion, Anesthesia for Nurses, Physician Assistant Studies, Physical Therapy, Occupational Therapy and Healthcare Studies, comprise the Department of Health Professions. Rick Segal, PT PhD is the Department Chair, and Minoo Kavarana, M.D., is the Medical Advisor for the Cardiovascular Perfusion Program.

## **MEDICAL UNIVERSITY OF SOUTH CAROLINA**

The Medical University of South Carolina (MUSC) is an academic health care center comprised of a 600-bed referral and teaching center with six colleges (Dental Medicine, Graduate Studies, Health Professions, Medicine, Nursing, and Pharmacy). MUSC's perfusion education program is in the Department of Health Professions of the College of Health Professions (CHP) (established 1965) at the Medical University of South Carolina.

MUSC is state-owned and is South Carolina's primary specialized academic health care facility performing both adult and pediatric heart surgery. The MUSC Children's Hospital performs approximately 300 pediatric and infant cardiac procedures and is nationally ranked. MUSC has an active liver transplant, heart transplant, lung transplant, ventricular assist and ECMO program in which the Cardiovascular Perfusion faculty and students actively participate.

## **FACULTY AND STAFF**

### DIVISION DIRECTOR:

David Fitzgerald, DHA, MPH, CCP,

### ASSISTANT DIVISION DIRECTOR

Laura Dell'Aiera, MHS, CCP

### ADJUNCT FACULTY:

Michelle B. Nelson, MHA

Joseph J. Sistino, PhD, CCP, FFP

### Phone Number for Division of Cardiovascular Perfusion:

Division Director

(843) 792-8404

Clinical Coordinator

(843) 792-8508

### **FINANCIAL ASSISTANCE**

Financial aid information and applications are available from the Office of Student Financial Aid Services in the Harper Student Center. Phone: 843-792-3281 Email: [finaid@musc.edu](mailto:finaid@musc.edu)

### **EMAIL ETIQUETTE**

Students of MUSC will be assigned an *e-mail* account. Instructors, the Dean's Office and administrative departments will send students important information via *e-mail*. Students are expected to check their emails regularly each day.

## PROFESSIONAL CONDUCT

Each student enrolled in the College of Health Professions is expected to follow the code of professional conduct found in the MUSC Bulletin and adhere to the AmSECT Code of Ethics.

Under the code of professional conduct, a student enrolled in the College of Health Professions is expected to:

- Appear and conduct themselves in a professional manner.
- Be cognizant of and adhere to the channels of authority.
- Be academically and professionally honest.
- Show respect for and be mutually supportive of fellow students, faculty, and staff regardless of race, religion, sex, nationality or economic status.
- Identify truthfully and accurately their credentials and professional status
- Refrain from performing any professional service which requires competence that they do not possess, or which is prohibited by law.
- Accept responsibility for relating incompetence and unethical conduct to the proper authorities.
- Regard as strictly confidential all information concerning each patient and refrain from discussing this information with any unauthorized individual, including the patient.
- Show respect and consideration for the patient, regardless of race, religion, sex, nationality or economic status.
- Be guided at all times by concern for the welfare of patients entrusted to his/her care.

## STANDARD OF CONDUCT FOR TREATMENT OF TRAINEES

MUSC strives to impart the values of professional and collegial attitudes and behaviors in interactions among members of the University community. MUSC prohibits attitudes and behaviors toward students, residents and fellows that are unfavorable to the development of mutual respect. The Standards of Conduct policy provides examples of misconduct and outlines procedures trainees can use to address mistreatment.

Please visit the following website for more details:

<https://chp.musc.edu/current-students/college-and-program-handbooks>

**AmSECT Code of Ethics (<https://www.amsect.org/page/code-of-ethics>)**

The purpose of a code of ethics is to acknowledge a profession's acceptance of the responsibility and trust conferred upon it by society and to recognize the internal obligations inherent in that trust. The following paragraphs delineate the standards governing the



conduct of members in their professional interactions with patients, colleagues, other health professionals and the general public. Realizing that no code can encompass all ethical responsibilities of the members, this enumeration of obligations in the code of ethics is not comprehensive and does not constitute a denial of the existence of other obligations, equally imperative, and not specifically mentioned herein. This code of ethics shall be binding on the members of this society.

- Canon 1. Members must uphold the dignity and honor of the profession, accept its disciplines and expose without hesitation illegal, unethical and incompetent conduct.
- Canon 2. Members shall respect the patients' rights and dignity and shall uphold the doctrine of confidentiality regarding privileged patient information.
- Canon 3. Members shall provide only those services for which they are qualified. Members shall not misrepresent in any manner, either directly or indirectly, their skills, training, professional credentials, identity or services.
- Canon 4. Members shall strive to improve their medical knowledge and skills on a continuing basis.
- Canon 5. Members shall maintain and promote high standards for perfusion practice, which may include education, research and scientific presentations and/or publication.
- Canon 6. A member shall at all times hold the well-being of the patient to be paramount and shall not act in such a way as to bring the members' interests into conflict with the patient's interests. A member shall deliver health care services without regard to race, color, creed, national origin, sex, age, religion, sexual preference or physical and/or mental condition.

## **ATTENDANCE**

This is an online program so weekly participation is required as specified in the individual course syllabi. Students are **responsible for studies missed during an absence and will be required to make up all classes**. Academic penalties for unexcused absences or lateness will be determined by each course director and defined in the course syllabi.

If for any reason a student is unable to complete a scheduled academic assignment, it is his/her responsibility to inform the appropriate instructor, supervisor or program director. If prior notification is impossible, an explanation for the absence should be presented to the instructor within 24 hours.

## CURRICULUM

### Curriculum Description

The University Bulletin specifically lists the curricula and the course description:

<https://education.musc.edu/students/enrollment/bulletin/colleges-and-degrees/health-professions/ms-in-cardiovascular-perfusion-pp/curriculum>

**The Cardiovascular Perfusion curriculum is structured for one year, 3 semesters (15 weeks each).**

Semester		Credit Hours
Fall	Quality Improvement and Clinical Informatics	2
	Masters Research Project I	3
	Evidenced Based Medicine	2
	<b>Total Semester Hours</b>	<b>7</b>
Spring	Leadership and Health Delivery Systems	2
	Pathophysiology of Aging	1
	Masters Research Project II	4
	<b>Total Semester Hours</b>	<b>7</b>
Summer	Cardiac Assist Devices	2
	Post Professional Pediatric	1
	Masters Research Project III	3
	<b>Total Semester Hours</b>	<b>6</b>
	<b>Total Credit Hours</b>	<b>20</b>
	<b>Transfer Credits</b>	<b>10</b>

\*Transfer credits must be from an AC-PE accredited perfusion program and must not have been used as credits towards a first bachelor's degree

\*\*example of courses – pharmacology, physiology, pathophysiology

### Competencies and Terminal Objectives

Each course, especially the clinical courses, carries objectives and competencies that must be demonstrated by the student. Each course employs testing and evaluation methods appropriate to and matching the course objectives.

## **GRADING POLICY AND ACADEMIC STANDING**

The CVP program utilizes the CHP grading policy as noted in the CHP Student Policies and Procedures Manual found on the following link:

<https://education.musc.edu/students/enrollment/bulletin/policies-and-guidelines>

### **Didactic Evaluation**

Classroom evaluation and methods are in the purview of the individual course instructors. No student may graduate while on academic probation.

Students will be placed on academic probation based on the following criteria

- A student with a cumulative GPA between 2.75 and 3.0 after the first semester will be placed on academic probation. They will be allowed one semester to raise the cumulative average to the required 3.0.
  - If, at the end of that semester of probation, the student has failed to achieve a 3.0 or greater cumulative grade point average, the student will be dismissed from the program.
- Students will be dismissed from the program if any one of the following occur:
  - A cumulative GPA of less than 3.0 the second semester or later.
  - A cumulative GPA less than 2.75 at any time.
  - Two course grades between 2.0 and 2.9 in a semester.
  - Any course grade of less than 2.0.

## **FACULTY ADVISOR**

Each student is assigned a faculty advisor. It is the responsibility of the students to schedule a meeting with their advisor at least once each semester. Cardiovascular Perfusion students may consult their faculty advisor with challenges that cannot be resolved on a teacher-student basis. Student must contact their faculty advisor whenever they are failing a course in order to develop a plan for successful completion of the semester.

## **DEPARTMENTAL POLICIES**

The CVP program utilizes University appeal process as outlined in the MUSC bulletin.

<https://education.musc.edu/students/enrollment/bulletin/policies-and-guidelines/academic-review-and-appeal>

## GRIEVANCE POLICY

Any complaint of a student concerning academic performance may proceed in two ways:

1. A student having a complaint based upon his/her performance in a specific department or course shall attempt to resolve such complaint himself/herself with the academic department involved.
2. If the matter is not resolved to the satisfaction of the student and the student continues to feel that a wrong has occurred, the student may petition the Department Chair in writing.

## APPEAL PROCESS

A student complaint arising from an action of the CVP Academic Progress Committee (Cardiovascular Perfusion Faculty) should be addressed to the Dean in writing. A complaint must be received by the Dean within seven (7) calendar days following receipt of notice by the student of the action of the CVP Academic Progress Committee or such complaint shall be waived. The Dean will refer to an ad hoc Academic Review Committee for their consideration and recommendation.

1. The Chairman of the ad hoc Academic Review Committee shall provide the student with written notice of the hearing not less than seven (7) calendar days prior to the hearing.
2. The student must present all relevant evidence in his/her behalf at the hearing and may be accompanied by a faculty advisor of choice.
3. The Dean, after a review of the record and the recommendation of the committee, shall render a decision and advise the student in writing.

## UNIVERSITY HONOR CODE

Refer to the university honor code in the Bulletin of the Medical University of South Carolina <https://education.musc.edu/students/enrollment/bulletin/honor-code>

## Borrowing of Faculty or Department Resources

The program and faculty have books, tapes and other resources that are available to students. **Books, journals, periodicals, etc, may NOT be removed from the Division Library without prior consent from the faculty. Students are expected to properly re-shelve all books, journals and periodicals after usage.**

## **Communication via Social Media**

The CVP program recognizes the role that social media plays in electronic communication and networking. However, inappropriate use of social media such as Facebook can cause serious negative ramifications to patient confidentiality, student professionalism, and overall public impression of the Program, the College, and the University. Inappropriate use of social media includes but is not limited to:

- Discussion or comments of clinical experience regardless of the use of patient or
- Clinical site identifiers
- Slander of fellow students or faculty
- Expressing opinions that can be perceived as the opinions of MUSC or the CVP program

Please be aware that protected confidential student and/or patient information may not be shared or posted. All comments, photos, or other information shared via this social media platform should remain appropriate and professional and should in no way infringe upon regulations as stated in FERPA, the Family Act. To read more about FERPA, please visit this site: <http://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html>.

## **EXPENSES**

### **Academic Charges**

University and College tuition and fees for in-state and out-of-state students can be obtained from the student financial aid office. Additional fees that are specific for the Cardiovascular Perfusion program include:

Program Fee: \$750.00 per semester

**Student Handbook Acknowledgement  
Form Fall, 2020**

**Division of Cardiovascular Perfusion  
College of Health Professions**

I have received, read and understand the contents of the 2020-21 Medical University of South Carolina Cardiovascular Perfusion Program Student Handbook.

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Name (Printed)

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Signature

Date: \_\_\_\_\_