



ASSOCIATE in APPLIED SCIENCE – CARDIAC SONOGRAPHY

I wish to be considered for acceptance into the JCC's Cardiac Sonography Program for the following year:

(Please place a check before the desired year)

WINTER Semester (Cardiac Sonography) 2010 2011 2012

Program Application Fee
\$50.00
non-refundable

NAME _____ Previous Last Name _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

JCC STUDENT ID NUMBER _____ HOME PHONE _____

CELL PHONE _____ EMAIL ADDRESS _____

The following must be completed prior to entering the program:

ENG 131, MTH 131 or higher, PSY 140, HPF 160, CIS 101, HUM (3 credits), COM 231 (or COM 240)

DMS 100, DMS 104 (with a minimum grade of **2.0**)

MOA 120, BIO 132 or BIO 155 or BIO 253 and BIO 254, HOC 130 (with a minimum grade of **3.0**)

THIS PROGRAM IS COMPETITIVE. Minimum Grades DO NOT Guarantee Admission.

For **each** course listed below, please fill in an appropriate response:

Indicate your grade if you have completed the course, OR Indicate if you are currently enrolled.

*You must meet the required credits for each prerequisite course transferred to JCC

ENG 131 *3 transfer credits	MTH 131 (4cr) or higher *3 - 4 transfer credits	COM 231 or COM 240 *3 transfer credits	HOC 130 *3 transfer credits
PSY 140 (4cr) *3 transfer credits	ADO 8 (see page 2) *1 transfer credits	BIO 132 or BIO 155 or BIO 253 and BIO 254 *4 - 5 transfer credits	MOA 120 (3cr) *2 -3 transfer credits
CIS 101 *3 transfer credits	ADO 6 (3cr) (see page 2) *3 transfer credits	DMS 100	DMS 104

Have you completed and submitted these documents?	JCC Application	DMS Fact Sheet Signed and Completed	Application Fee Paid Receipt Attached \$\$\$
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My signature verifies that I have met all requirements for application to the Cardiac Sonography program; read and understand the Technical Standards for Admission and the Technical Standards and Functions documents; Cardiac Sonography Admission Process (pages 2, 3, 4, & 5); my admissions file is complete; and I have consulted with an Academic Advisor.

Student Signature _____ Date _____

APPLICATION and TRANSCRIPT RECEIPT DEADLINE:

*Application form must be submitted directly to: Jackson Community College
Allied Health Office (JW 231)
2111 Emmons Road
Jackson, MI 49201*

AUGUST 31st (CARDIAC SONOGRAPHY) FOR A WINTER SEMESTER PROGRAM START (JANUARY)

CARDIAC SONOGRAPHY ASSOCIATE IN APPLIED SCIENCE PROGRAM ADMISSION PROCESS

Jackson Community College and the Allied Health Department are pleased that you are interested in the Associate in Applied Science Cardiac Sonography Program. The selection process was established to enhance student success in the Sonography curriculum and passing scores on the National Exam, American Registry of Diagnostic Medical Sonographers (ARDMS).

APPLICATION PROCEDURE - ALL Applicants must:

- 1) Submit a Jackson Community College application.
- 2) Submit a completed Diagnostic Medical Sonography Advising Fact Sheet Form.
- 3) Submit a completed Jackson Community College Cardiac Sonography Program Application Form and indicate the desired program year. ***This application must be submitted directly to the Allied Health Office (JW 231). The application fee must be paid to JCC's Cashier's Office.***
- 4) Be a high school graduate or successfully complete the G.E.D. test.
- 5) Forward to the Jackson Community College Admissions Office **ALL** transcripts from colleges previously attended. ***It is your responsibility to confirm that your transcripts are on file.*** (Allow 8–10 weeks for transcripts to be processed. All transcripts **MUST** be received by the application deadline. Failure to have all transcripts submitted timely to Jackson Community College may result in an incomplete Cardiac Sonography application).
- 6) Meet Technical Standards for Admission of the Allied Health Department and Technical Standards and Functions required for the Cardiac Sonography Program.

APPLICATION REQUIREMENTS for the CARDIAC SONOGRAPHY PROGRAM

The Cardiac Sonography Program is an integrated didactic and clinical training program designed to prepare the student for employment in the field of Cardiac Sonography. After successful completion of the nationally recognized ARDMS registry exam, the graduate will be eligible to write the initials RDCS behind his/her name.

Admission Requirements and Process for the Cardiac Sonography Program

- 1) Students must have completed the prerequisite course work with a final grade of 2.0 or better in each course.

The following General Education and Pre-Requisite courses are required:

- | | | |
|-----|-----------------------|--|
| 1) | * BIO 132 or | Human Biology (3 credits) |
| | * BIO 155 or | Human Anatomy and Physiology (4 - 5 credits) |
| | * BIO 253 and BIO 254 | Human Anatomy and Physiology (4 - 5 credits) |
| 2) | ENG 131 | Writing Experience (3 credits) |
| 3) | MTH 131 or higher | Intermediate Algebra (3 – 4 credits) |
| 4) | PSY 140 | Intro to Psychology (3 - 4 credits) |
| 5) | ADO 6 | (3 credits) please review course choices in catalog |
| 6) | ADO 8 | (1 credit or higher) please review course choices in catalog |
| 7) | * HOC 130 | Introduction to Health Occupations (3 credits) |
| 8) | CIS 101 | Information Technology Education (3 credits) |
| 9) | * MOA 120 | Medical Terminology (2 - 3 credits) |
| 10) | COM 231 or | Communication Fundamentals (3 credits) |
| | COM 240 | Interpersonal Communication (3 credits) |
| 11) | DMS 100 | Introduction to Diagnostic Medical Imaging (3 credits) |
| 12) | DMS 104 | Introduction to Sonographic Instrumentation (3 credits) |

*Requires a final grade of 3.0 or higher for admission consideration.

2) All applicants' academic records are evaluated by using a numerical point system. Entry into the Cardiac Sonography program is competitive and based on total points from the grades earned in prerequisite coursework and an interview process.

3) All qualified applicants will have a consultation (interview) with the JCC Admissions Committee.

A. The Admissions Committee will be comprised of a minimum of three (3) of the following individuals:

- Program Coordinator
- Clinical Instructor
- Clinical Coordinator
- Medical Advisor
- Allied Health Director
- A Representative of JCC Student Affairs Office
- Any non-student member of the Sonography Advisory Committee

B. All applicants will be asked to respond to similar set of questions during the consultation (interview) process.

C. All applicants will be scored by each member of the Admissions Committee and an average score is entered into overall point tally for admission considerations.

4) A clinical site must be arranged and approved for each applicant before final acceptance into the program. The clinical site is a third party entity into which students are placed for practical experience. JCC cannot guarantee that a clinical site will always be available. Arrangement for such a site depends upon the college's ability to enter into a formal agreement with a proposed site. Students should not rely upon the availability of a clinical site in particular geographical location.

While JCC uses its best efforts to negotiate clinical sites, even after they become available they can become unavailable for reasons beyond the control of JCC and in that event JCC has no liability. No one at JCC has authority to modify the conditions and information outlined in this application other than in writing signed by the Director of Allied Health.

5) All **accepted** applicants will be required to submit a completed statement of health/physical condition. The completed physical statement needs to include: medical history, physical exam results, and immunizations. This statement must be received by the Allied Health office prior to any Cardiac Sonography student beginning their clinical education.

6) All **accepted** Cardiac Sonography students must submit proof of Hepatitis B vaccination or a signed waiver. Some clinical sites may require qualified applications to submit to a background check and a drug screen.

7) Jackson Community College does not pay for health physicals and/or any required vaccinations.

Admissions process is nondiscriminatory in regards to race, color, religion, national creed, national origin or ancestry, age, gender, sexual preference, marital status, or handicap.

8) All of the Cardiac Sonography program courses are offered online through Jackson Community College distance education. Even though the Cardiac Sonography program is an online program, all accepted applicants who live within a 200 mile radius of the College will be required to come to the main campus of Jackson Community College for the following:

- | | |
|---------------------------|---|
| Interview for the program | Orientation into the Sonography program |
| Sonography Lab courses | Course exams |

9) Some clinical sites may require an **accepted** Cardiac Sonography student to attend a lab orientation (DMS 096) prior to attending their clinical education of the Sonography program.

ACCEPTANCE PROCESS

- 1) The order of acceptance of qualified applicants will be based on points achieved. All prerequisites must be completed before an applicant can be considered for the Cardiac Sonography program.
- 2) If more than one qualified applicant achieves the same score in the Point System for the last remaining spot, the applicant with the highest overall Jackson Community College grade point average will be selected.
- 3) If you are not offered a space in the program you have applied for and wish to be reconsidered for the next program year, you must re-submit another Program Application Form and the \$50.00 application fee for that program year. *Your application and application fee will **NOT** automatically be rolled over.*
- 4) Upon acceptance to the Cardiac Sonography Program, an applicant must complete the Health Certification Form and obtain Professional Level CPR certification. This training includes infant, child, adult, 1 man – 2 man CPR and choking. **This MUST be maintained and current while in the program.**
- 5) Notification of applicants' status into the Cardiac Sonography program will be made in November for the upcoming winter semester (January). If a student chooses not to accept their seat in the program for that year, he/she will need to reapply for the next year and compete with the other candidates for that year.
- 6) Upon acceptance to the Cardiac Sonography Program, you will need to have access to a computer with the following minimum requirements:

Hardware

Pentium speed PC or PowerMac
256 MB of RAM
CD-ROM
56K modem or greater (high speed internet recommended)

Software

Internet Explorer® version 5.5 or greater, Netscape Navigator® version 4.7 or greater
Windows 98 or Mac 9 OS or higher
Microsoft PowerPoint viewer
Windows Media Player
Microsoft Word

You must be able to upload and download documents and attach documents to an email. You must also be familiar with operation of the above application programs.

ISP (Internet Service Provider)

If you are going to do your work from your home computer, you must have an ISP at the start of your course. This allows you to start on your material as soon as you gain access to your course.

CARDIAC SONOGRAPHY POINT SYSTEM

The selection process will be based on the following point system. The number of students selected into the Cardiac Sonography program is determined by how many clinical sites are available to host the JCC student(s).

<u>Criteria</u>	<u>Possible Points</u>	
Academic		
Previous degree earned	Yes = 1	No = 0
Allied Health degree	Yes = 3	No = 0
Allied Health experience <i>Please provide a Professional Reference that demonstrates verification of Allied Health Experience. (This experience pertains to hands on medical experience)</i>	1 – 5 years = 1 Over 5 years = 2	
DMS 100 Intro to Diagnostic Medical Imaging	3.0 = 0 3.5 = 1 4.0 = 2	
BIO 132 or BIO 155 or BIO 253 and BIO 254 Human Biology or Human Anatomy & Physiology	3.0 = 1 3.5 = 3 4.0 = 4	
MOA 120 Medical Terminology	3.0 = 0 3.5 = 2 4.0 = 3	
DMS 104 Intro to Sonographic Instrumentation	2.0 = 0 2.5 = 0.5 3.0 = 2 3.5 = 4 4.0 = 6	
HOC 130 Intro to Health Occupations	3.0 = 0 3.5 = 0.5 4.0 = 1	
Job Shadow (observing in a Cardiac Sonography lab for no less than one full day. During this Job Shadow you should have had the opportunity to view several ultrasound exams) The Job Shadow needs to be completed before October 1 st .	Yes = 1	No = 0
Career Investigation (You will be required to describe the knowledge about Cardiac Sonography career, such as memberships, organizations, etc.)	Yes = 1	No = 0
Interview		
Communication	3	
Poise & Self Confidence	1	
Critical Thinking	2	
Professionalism	2	
TOTAL Possible Points	32	

**TECHNICAL STANDARDS FOR ADMISSION
ALLIED HEALTH DEPARTMENT
JACKSON COMMUNITY COLLEGE**

The Allied Health Department faculty has specified the following non-academic criteria which applicants generally are expected to meet in order to participate in the Department of Allied Health Sciences programs and professional practice. These technical standards are necessary and essential and have been developed to provide for the health and safety of the patients receiving care from the Allied Health Department program students.

OBSERVATION – The applicant must be able to participate in all demonstrations, laboratory exercises and clinical practicum in the clinical component and to assess and comprehend the condition of all patients assigned for examination, diagnosis and treatment.

COMMUNICATION – The applicant must be able to communicate with patients to effectively elicit patient compliance, understand and assess non-verbal communications; and be able to effectively transmit information to patients, physicians, paraprofessionals, faculty and staff in a timely way.

PSYCHOMOTOR – The applicant must have motor functions sufficient to elicit information from patients by appropriate diagnostic or therapeutic maneuvers; be able to perform basic tasks; possess all necessary skills to carry out diagnostic or therapeutic procedures; be able to interpret movements reasonably required to provide general care and emergent treatment/actions as necessary for patient safety and comfort.

INTELLECTUAL / CONCEPTUAL INTEGRATIVE AND QUANTITATIVE ABILITIES – The applicant must be able to measure, calculate, reason, analyze, evaluate, and synthesize information and observations. Problem solving, the critical skill demanded of Allied Health Practitioners, requires all of these cognitive abilities. In addition, the applicant must be able to comprehend three-dimensional structures and understand the spatial relationships of these structures.

BEHAVIOR AND SOCIAL ATTRIBUTES – The applicant must possess the emotional health required for full utilization of intellectual abilities; execute appropriate medical judgment; the prompt completion of assigned or non-assigned responsibilities for care of and service to the patient; and the development of supportive and effective relationships with patients. Applicants must be able to tolerate physical and mental work loads, function effectively under stress, adapt to changing environments and conditions, display flexibility and function in the face of uncertainties inherent in the clinical setting and with patients. Compassion, integrity, concern for others, interest and motivation are personal qualities with each applicant should possess.

**TECHNICAL STANDARDS AND FUNCTIONS THAT ARE
REQUIRED TO SUCCESSFULLY COMPLETE AN ASSOCIATE
IN APPLIED SCIENCE DEGREE IN CARDIAC SONOGRAPHY**

STANDARDS

FUNCTIONS

Vision sufficient to differentiate shades of gray and color and to observe diagnostic real-time images. Vision sufficient to delineate ill-defined structures, borders, anatomical structures and pathological entities in three-dimensional projections.	Scanning with real-time Sonography system for the purpose of delineating normal anatomical structures from abnormal pathological entities.
Vision sufficient to be able to read and accurately complete reports and charts.	Reading and completing of charts, reports and interpretation of requisitions.
Speech sufficient to be understood by others; ability to understand the communication of others.	Communicating with patients, and other health care professionals.
Hearing sufficient to differentiate Doppler signals.	Conduct Doppler studies of anatomical arterial and venous structures for the purpose of diagnosing abnormal blood flows and pathological states.
Vision and physical coordination sufficient to perform scanning tasks accurately, efficiently and safely.	Manipulating of transducer while observing real-time image and conducting diagnostic study.
Sufficient fine motor functions and coordination to perform tasks involving manipulation of scan probes, instrument panels, patient position and safety.	Obtaining diagnostic real-time images for diagnostic interpretation.
Sufficient muscle strength, lower back and knee stability to handle patients in a safe manner.	Lifting and transferring of patients, physically assisting patients, moving and manipulation of ultra-Sonography systems.
Sufficient psychological stability and knowledge of techniques/resources to be able to respond appropriately and efficiently in emergent situations in order to minimize dangerous consequences either patient related or environment related.	Recognizing and responding appropriately in emergency situations.
Ability to sit or stand for extended periods of time, up to 7-8 hours per day.	Scanning requires sitting or standing for extended periods of time.
Ability to learn technical, medical, and pathophysiological information.	Completion of clinical and didactic components of program requires ability to learn.

You need to be able to perform each of these tasks with or without accommodation. If an accommodation is necessary because of a disability it is your responsibility to provide documentation and to request accommodation. The college will endeavor to satisfy requests for reasonable accommodations however it is not guaranteed.

APPLICATION and TRANSCRIPT RECEIPT DEADLINE:

August 31st (Cardiac Sonography) for a Winter Semester program start (January)