

**Jackson Community College  
DMS 152 Online-Peripheral Arterial II**

**Course Syllabus  
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Credits: 3**

**Course Description**

This course, a continuation of DMS 151, facilitates student learning of diagnostic testing methods for the peripheral arterial systems of the upper and lower extremities. Testing methods covered will include segmental pressures, color Doppler imaging (CDI) and duplex sonography. Abdominal vascular testing techniques will be included.

**Course Objective**

- By the completion of DMS 152 the student will be able to demonstrate entry level cognitive and psychomotor competency with the testing skills and knowledge of, upper extremity arterial vasculature, upper extremity and digital arterial pathology and pathophysiology, upper extremity arterial hemodynamics, proper imaging techniques of upper extremity arterial testing, arterial and venous abdominal and visceral vasculature, abdominal and visceral pathology and pathophysiology, proper imaging techniques of abdominal and visceral testing, interpretation and preliminary reporting, testing indications and limitations, proper use of equipment.

**Measurement Of Objective**

- Student must achieve a passing score of 75% on the module quizzes and exams. Questions are conceptual based to measure knowledge, critical thinking and problem solving
- Student must achieve a passing score of 75% on Case studies

**Course Outcome**

- Successful completion of DMS 152 will lead to progression as an entry-level vascular technologist and candidate for the national American Registry of Diagnostic Medical Sonographers, vascular specialty (RVT) registry exam.

## **Associate Degree Outcomes (ADO)**

The course goals and objectives incorporate specific Associate Degree Outcomes (ADOs) established by the JCC Board of Trustees, administration, and faculty. These goals are in concert with four-year colleges, universities, and reflect input from the professional communities we serve. ADOs guarantee students achieve goals necessary for graduation credit, transferability, and professional skills needed in many certification programs.

ADO 7 Critical Thinking at the Developing Level: Understands Conclusions, Implications & Consequences, and Problem Solving.

## **Facilitator and Student Responsibilities**

Student Responsibilities:

Students are expected to participate and be prepared for each session. It is presumed by the facilitator that assignment, including reading, will be completed on time prior to material on subjects being presented; such preparations allows the student the best learning opportunities to understand material presented and pose questions in areas requiring clarity. The pace of this course makes it very difficult for a student to catch up once a student falls behind.

It is highly suggested by the instructor that students utilize as many references as possible to enhance their learning and understanding.

Facilitator's Responsibilities:

The facilitator's responsibilities include facilitate learning by providing and explaining the necessary materials for each student to understand the assignments and develop course goals, objectives, and performance objectives to a near mastery level. See JC DMS Handbook for a listing of these goals, course objectives and performance objectives. Knowledge gained from this course should aid students in their clinical experiences. Classes will begin on time weather permitting.

## **Required Texts:**

Rummel & McPharlin, Vascular Technology an Illustrated Review 4<sup>th</sup> Edition, Davis Publishing 2009, ISBN 0-941022-73-0

Pellerito & Polak, Introduction to Vascular Ultrasonography 6th Edition, Elsevier Publishing, 2012, ISBN978-1-4377-1417-3

## Course Method, Attendance

This class week will end Sunday at 11:00pm. All the tasks for the week are expected to be completed by 11:00pm Sunday.

## Class Discussion

Because this class is on-line, group discussions is a great way to share experiences. A strong emphasis should be placed on engaging classmates often. A forum named, "Class Chat, Questions and Answers" is an area where you can interact with class mates and post any questions you may have regarding class, clinical, or whatever you may wish to share. Also by participating in-group discussion the student will learn computer technology, researching internet, and additional tools to aid in successful on-line learning.

The nature of online education is different than traditional classroom participation. The students are expected to access each week's materials several times, even daily. In this way, traditional classroom discussion is simulated and even enhanced. **There is NOT a minimum requirement for class discussions the degree and amount of time the student participates DOES NOT count towards the student's final grade.**

## Assignments

Case Studies: There are five UE arterial Doppler case studies to evaluate and write an impression. Your grade will be based on the accuracy of your analysis. Each case study is worth 10 points.

Each case study will have a specific set of instructions and examples of impressions you may use.

## **Grading:**

A quiz of 20 points follow each lesson. Quizzes must be completed by 11pm EST by the designated due date to avoid penalty. If previous arrangements are not made, five points will be deducted each day the quiz is late. There will be a mid-term exam and one test. The exams will be administered online and timed.

<b>Assessment Element</b>	<b>Value</b>	<b>Quantity</b>
Class Assignments and quizzes	20%	20
Tests(mid-term and test 2)	35%	2
Final Exam	45%	1

### **Grading Scale:**

95-100%	4.0
90 - 94%	3.5
85 - 89%	3.0
80 - 84%	2.5
75 - 79%	2.0
70 - 74%	1.5
65 - 69%	1.0
60 - 64%	0.5

### **Distance Proctored Examination- Final Exam**

Students who live greater than 100 miles from JC 's main campus are approved to locate a proctor within his or her area. You will need to make arrangements for a proctored exam according to the guidelines listed below. All students living within 100 miles of JC must take the final exam at JC's main campus testing center.

All proctors must be submitted by the deadline given by the instructor. No Exceptions!  
\*Please read carefully through the following instructions regarding your final exam.\*

1. Make sure I approve the proctor by the deadline. It is your responsibility to find a proctor and schedule a time to take the final. You need to e-mail me with the following information:

Proctor's name – address – phone number – e-mail address

2. The proctor cannot be a relative or friend of the student.

3. The proctor cannot benefit from the success of the student in this class.

4. **The proctor can be a college instructor, a librarian, another college testing center**

Note: The e-mail address must be a library, college or testing center; I will e-mail a password which will enable you to access the final exam.

**Schedule and Due Dates- This is a 8 week course.**

Module	Topic	Tasks	Due Date
1	Upper Extremity Anatomy	Readings: Polak/Pellerito, Ch 13 Pg 231-243: McPharlin/Rumwell, Ch 1 pg 3-6  Assignment: Lesson notes, Quiz	May 24
2	Risk Factors	Readings: Polak/Pellerito,NONE: McPharlin/Rumwell, Review ch 3 pages 39-46  Assignment: Lesson notes, Quiz	May 31
2	Disease and Syndromes	Readings: Polak/Pellerito, Chapter 15 pp. 265-280: McPharlin/Rumwell, Ch. 3 page 47-50 Ch 16 page 170-172 Ch 24 page 247-249  Assignment: Lesson notes, Quiz	May 31
3	Waveform Analysis and Pressures	Readings: Polak/Pellerito, Ch 2 (review) pp 38-40 Ch 15 (review) pp 262-264  McPharlin/Rumwell, ch 4 (review) pg 51 ch 9(review) pg 93 ch 10 (review) pg 103  Assignment: Lesson Notes, Quiz	June 7
3	Ue Segmental Pressures	Readings: McPharlin/Rumwell , ch 6 pg 75 Chapter 9 page 93-102 (review) Chapter 10 (review)  Assignment: Lesson notes. Quiz	June 7
4	Upper extremity Duplex Imaging	Readings: Polak/Pellerito, Ch. 15 pp. 268-280; McPharlin/Rumwell, Ch 12 pg117 ch. 16 pg 165-172  Assignment: Lesson Notes, Quiz, Case Study 1, 2, 3	June 14
4	Hemodialysis Fistulae	Readings: Polak/Pellerito, Ch. 16 pp. 281-292; McPharlin/Rumwell, Ch 12 pg117	June 14

		Assignment: Lesson Notes, Quiz, Test 1	
5	Special Ue Arterial Disease Testing	Readings: Polak/Pellerito, Read through all of chapter 15; McPharlin/Rumwell, Finish reading ch. 16 pg 165-172  Assignment: Lesson notes, Quiz	June 21
5	Ue Disease Treatments-Pharmacology	Readings: Polak/Pellerito, NONE; McPharlin/Rumwell, NONE  Assignment: Lesson notes, Quiz, Proctor Information due	June 21
6	Abdominal Anatomy	Readings: Polak/Pellerito, Ch. 26 pp. 439-449 ; McPharlin/Rumwell, Pages 6-9  Assignment: Lesson notes, Quiz	June 28
6	Abdominal Arterial Testing I	Readings: Polak/Pellerito, Read through Ch.'s 27 and 28 ; McPharlin/Rumwell, Begin reading chapter 14 pages 137-157  Assignment: Lesson notes, Quiz	June 28
7	Abdominal Arterial Testing II	Readings: Polak/Pellerito, Chapter's 29, 30, and 31 ; McPharlin/Rumwell, Finish reading chapter 14 pages 137-157  Assignment: Lesson notes, Quiz, Case Study 4 and 5	July 5
7	No New Material	Test 2	July 5
8	Final Exam Review and Course Completion	Final Exam Available July 6 <sup>th</sup> -12 <sup>th</sup>  Please see testing lab information to arrange your schedule to complete the final exam by the last day of the posted due date	<b>July 12</b>  <b>Final Date for final exam</b>

### **HQV Grades:**

What are HQV grades? HQV grades are mandated by the federal government to be entered on each student throughout the semester. These grades verify or confirm that a student is participating in class or not participating. If a student does not access class for a period greater than 7 class days a H will be recorded. If a student does not access class for a period greater than 14 class days, a Q will be recorded.

**Once a student is “Q’d” I will not allow re-admission into class.**

All faculty are required to report each student’s progress through the HQV grade process:

- **H** indicates the student is not doing acceptable work and needs **H**elp to be successful.
- **Q** indicates the student has not attended and the instructor believes they have unofficially withdrawn (**Q**uit). As a result of a “Q” grade, the student will be dropped from the class.
- **V** indicates the instructor **V**erifies that the student is attending.