

San Joaquin Valley College
COURSE ASSESSMENT PLAN
 To be revised at each Curriculum Conference

Course	DMS 210 - Abdominal and Small Parts Ultrasound Imaging	Date: July 2015
---------------	--	------------------------

1. <u>Student Learning Outcomes (SLOs)</u>	
Course level Student Learning Outcomes (CLOs) are statements describing what a student will be able to demonstrate upon completion of the course.	
Outcome 1	Recognize and identify normal anatomy of the abdomen and small parts on ultrasound
Outcome 2	Recognize and identify normal anatomic variants of the abdomen and small parts on ultrasound
Outcome 3	Recognize abnormalities in morphology, size, and echogenicity of the abdominal organs or small parts
Outcome 4	Identify clinical signs and symptoms pertinent to abdominal organ pathology
Outcome 5	Identify clinical signs and symptoms pertinent to pathological conditions of the breast, thyroid, parathyroid, testes, and prostate
Outcome 6	List clinical signs and patient symptoms that warrant ultrasound examination of the abdomen or small parts
Outcome 7	Document and describe pathology of the abdomen and small parts as visualized on ultrasound
Outcome 8	Utilize critical and analytical reasoning skills to arrive at a differential diagnosis
Outcome 9	Effectively communicate orally and in written form with the interpreting physician, findings related to the ultrasound examination performed
Outcome 10	Describe and differentiate between the various ultrasound appearances of common abdominal pathologies
Outcome 11	Describe and differentiate between the various ultrasound appearances of common breast, thyroid, parathyroid, testes, and prostate pathologies
Outcome 12	Describe and recognize the ultrasound appearances associated with masses of the anterior abdominal wall
Outcome 13	Explain the role of ultrasound in biopsy, paracentesis, and thoracentesis
2. <u>Delivery of Outcomes: How are the outcomes taught?</u>	
<ul style="list-style-type: none"> • List the variety of methods used to deliver the content to students (lectures, field trips, readings, written assignments, research opportunities, group projects, lab work, presentations, article reviews, etc.) • Describe <u>what students do</u> in the course to master the learning outcomes • This area does not include assessment methods (tests, exams, skill offs, etc.) 	

San Joaquin Valley College

COURSE ASSESSMENT PLAN

To be revised at each Curriculum Conference

	Delivery Methods
CLO 1	Daily lecture with PowerPoint, group projects (modeling), and medical crosswords (SDMS). Homework (Current events, Cross-sectional Anatomy, Portal Confluence project, Research Adrenal project)
CLO 2	Daily lecture with PowerPoint.). Homework (Current events, Essays "Uncommon Pathology")
CLO 3	Daily lecture with PowerPoint, 'YouTube' videos, Homework (Current events, Essays "Uncommon Pathology")
CLO 4	Daily lecture with PowerPoint, 'YouTube' videos, and medical crosswords (SDMS).
CLO 5	Daily lecture with PowerPoint.
CLO 6	Daily lecture with PowerPoint.
CLO 7	Daily lecture with PowerPoint.
CLO 8	Daily lecture with PowerPoint. Homework (Current events, Essays "Uncommon Pathology")
CLO 9	Daily lecture with PowerPoint.
CLO 10	Daily lecture with PowerPoint.
CLO 11	Daily lecture with PowerPoint. Homework (Current events, Essays "Uncommon Pathology")
CLO 12	Daily lecture with PowerPoint and 'YouTube' videos. Homework (Current events, Essays "Uncommon Pathology")
CLO 13	Daily lecture with PowerPoint.

San Joaquin Valley College

COURSE ASSESSMENT PLAN

To be revised at each Curriculum Conference

3. Assessment Describe 2-4 tools and/or evaluation methods used to collect the evidence of student achievement of course SLOs. <ul style="list-style-type: none"> • Criteria are rubrics, skill sheets or other tools used to determine whether the outcome has been met. • Achievement level describes the expected mastery level of the course SLO (e.g. 85% or level 3 on a 4 point rubric); this is not the same as a passing grade. 				
	Assessment Tool or Evaluation Method	Criteria (Rubric)	Achievement Target	Data Collection Method (if not done through eCourses)
CLO 1	DMS 210 Common Mastery Assessment Questions- (11 questions)		64% (7 of 11 questions correct)	
CLO 2	DMS 210 Common Mastery Assessment Questions- (4 questions)		75% (3 of 4 questions correct)	
CLO 3	DMS 210 Common Mastery Assessment Questions- (7 questions)		70% (5 of 7 questions correct)	
CLO 4	DMS 210 Common Mastery Assessment Questions- (6 questions)		70% (4 of 6 questions correct)	
CLO 5	DMS 210 Common Mastery Assessment Questions- (7 questions)		67% (5 of 7 questions correct)	
CLO 6	DMS 210 Common Mastery Assessment Questions- (4 questions)		50% (2 of 4 questions correct)	
CLO 7	DMS 210 Common Mastery Assessment Questions- (9 questions)		67% (6 of 9 questions correct)	
CLO 8	DMS 210 Common Mastery Assessment Questions- (11 questions)		63% (7 of 11 questions correct)	

San Joaquin Valley College

COURSE ASSESSMENT PLAN

To be revised at each Curriculum Conference

CLO 9	DMS 210 Common Mastery Assessment Questions- (8 questions)		63% (5 of 8 questions correct)	
CLO 10	DMS 210 Common Mastery Assessment Questions- (10 questions)		70% (7 of 10 questions correct)	
CLO 11	DMS 210 Common Mastery Assessment Questions- (6 questions)		67% (4 of 6 questions correct)	
CLO 12	DMS 210 Common Mastery Assessment Questions- (3 questions)		67% (2 of 3 questions correct)	
CLO 13	DMS 210 Common Mastery Assessment Questions- (2 Questions)		100% (2 of 2 questions correct)	

San Joaquin Valley College
PROGRAM ASSESSMENT PLAN
To be revised at each Program Review

Program	Diagnostic Medical Sonography (DMS)	July 2015
----------------	-------------------------------------	-----------

ALIGNMENT STATEMENTS

<u>Mission Alignment</u> Include a one-two sentence explanation of how this program aligns with SJVC's mission.
Purpose: Prepares students for an ultrasound career within a hospital, a medical imaging facility, a physician's office or medical clinic, etc. Students will experience hands-on training with ultrasound including scanning patients, patient care and lecture. Students are encouraged to keep up with the latest developments in ultrasound as well as reaching out and becoming involved in civic and community activities.
<u>Values Alignment</u> The Core Values at SJVC are: Success, Diversity, Community Involvement, Integrity, Excellence and Lifelong Learning. Include a one-two sentence explanation of how this program aligns with SJVC's values.
Values Alignment: The DMS program is involved with community service and events both locally and globally. The program sets high expectations for success, integrity and excellence through the clinical aspects of the program. Students are encouraged to keep current with industry standards and skills as a part of lifelong learning.
<u>Institutional Learning Outcomes</u> The Institutional Learning Outcomes (ILOs) at SJVC apply to all students (and employees) regardless of program or position. SJVC's ILOs include having graduates who are confident, educated, professional, skilled, citizens, and communicators. Include a one-two sentence explanation of how this program aligns with SJVC's ILOs.
ILO Alignment: The DMS program teaches the student how to communicate with other medical professionals, providers, patients and their family members. Students are encouraged to attend class on time every day and dress professionally. During their lab class, students will learn the skills and professional behavior they will use throughout their ultrasound career.

San Joaquin Valley College
PROGRAM ASSESSMENT PLAN
To be revised at each Program Review

OUTCOMES

Program Learning Outcomes	
Program Learning Outcomes (PLOs) are statements describing what a student will be able to demonstrate upon completion of the program. List your Program Learning Outcomes below:	
PLO 1	Obtain, review, and integrate pertinent patient history and supporting clinical data to facilitate optimum diagnostic results.
PLO 2	Perform appropriate ultrasound scanning procedures and record anatomic, pathologic, and/or physiologic data for interpretation by a physician.
PLO 3	Record, analyze, and process diagnostic data and other pertinent observations made during the procedure for presentation to the interpreting physician.
PLO 4	Exercise discretion and judgment in the performance of sonographic and/or other non-invasive diagnostic services.
PLO 5	Demonstrate appropriate communication skills with patients and colleagues
PLO 6	Act in a professional and ethical manner
PLO 7	Provide patient education related to medical ultrasound and/or other non-invasive diagnostic ultrasound techniques, and promote principles of good health.
PLO 8	Demonstrate the social skills, professional appearance, attitudes and behavior that employers expect of all SJVC graduates.

San Joaquin Valley College
PROGRAM ASSESSMENT PLAN
 To be revised at each Program Review

ASSESSMENT PROCESS

1. Delivery of Outcomes		
Describe what students do to master the learning outcomes. Indicate all the ways in which students are provided the opportunity to master the learning outcomes. (See Program Curriculum Map).		
<ul style="list-style-type: none"> When you identify where the opportunity for the learning resides, you can better determine whether the outcomes will be met in the opportunity provided This also ensures that you have provided an opportunity for the outcome to be developed, rather than just expecting it to be mastered without actually planning for it to be mastered Identifying where and how outcomes are delivered also provides reviewers with opportunities to identify where that outcome may be evaluated 		
	Courses	Delivery Methods
Outcome 1 Obtain, review, and integrate pertinent patient history and supporting clinical data to facilitate optimum diagnostic results.	DMS 210L, DMS 220L,	During labs, students must turn in certain skills to include a worksheet and accompanying images. The worksheet includes an area to document patient information, history and preliminary findings.
	DMS 230L, DMS 240L	
	DMS 225	Students learn how to obtain a good pertinent patient history.
Outcome 2 Perform appropriate ultrasound scanning procedures and record anatomic, pathologic, an/or physiologic data for interpretation by a physician.	DMS 210, DMS 220, DMS 230	During lecture, students learn the anatomy and physiology, ultrasound appearance and clinical indications of various ultrasound examinations.
	DMS 210L, DMS 220L, DMS 230L, DMS 240L	During labs, students perform various exams including documenting normal pathologic and/or physiologic data for the interpreting physician.
Outcome 3 Record, analyze, and process diagnostic data and other pertinent observations made during the procedure for presentation to the interpreting physician.	DMS 210, DMS 220, DMS 225, DMS 230;	Through lab exercises and lecture, students learn how to record, analyze and process the ultrasound images as well as document any pertinent observations and clinical history.
	DMS 210L, DMS 220L,	
	DMS 230L, DMS 240L	
Outcome 4 Exercise discretion and judgment in the performance of sonographic and/or other non-invasive diagnostic services.	DMS 210L, DMS 220L.	Students learn through lecture and in lab exercises patient privacy and confidentiality, patient care and safety, infection control and sterile techniques.
	DMS 225, DMS 230L,	
	DMS 240L	
Outcome 5 Demonstrate appropriate communication skills with patients and colleagues.	DMS 225	During lecture, students learn the proper way to communicate with patients and other healthcare professionals.

San Joaquin Valley College
PROGRAM ASSESSMENT PLAN
 To be revised at each Program Review

	DMS 210 L, DMS 220L, DMS 230L, DMS 240L	During lab exercises, students learn the proper way to communicate with patients and other healthcare professionals.
Outcome 6 Act in a professional and ethical manner.	DMS 235	During lecture, students learn about medical ethics, HIPAA, and professional behavior.
	DMS 210L, DMS 220L, DMS 240L	During lab exercises, students practice medical ethics, HIPAA and professional behavior.
Outcome 7 Provide patient education related to medical ultrasound and/or other non-invasive diagnostic ultrasound techniques, and promote principles of good health.	DMS 225	Through lecture, students will learn about patient rights.
	DMS 210L, DMS 220L, DMS 230L, DMS 240L	During lab exercises, the students will learn to explain the ultrasound procedure to the patient and inform the patient how and when results will be given.
Outcome 8 Demonstrate the social skills, professional appearance, attitudes and behavior that employers expect of all SJVC graduates.	DMS 225, DMS 235	Through lecture, students learn to communicate in a professional manner with their patients, patient's family, colleagues, other medical professionals and providers.
	DMS 210L, DMS 220L, DMS 230L, DMS 240L	Students learn through labs the attitudes, behavior and professionalism employers expect of all SJVC graduates which will help them be successful throughout their professional careers.

San Joaquin Valley College

PROGRAM ASSESSMENT PLAN

To be revised at each Program Review

Assessment Methods				
Describe 2-4 assessment methods and/or tools used to evaluate student achievement of PLOs.				
<ul style="list-style-type: none"> • Criteria are rubrics, skill sheets or other tools used to measure whether the outcome has been met. • Achievement target describes the expected mastery level of the PLOs (e.g. 85% or level 3 on a 4 point rubric). Achievement target is not the same as a passing grade. 				
	Evaluation Method or Tool	Criteria (Rubric)	Achievement Target	Data Collection Method
Outcome 1 Obtain, review, and integrate pertinent patient history and supporting clinical data to facilitate optimum diagnostic results	DMS250 Externship Site Evaluation	DMS 250 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- <i>Pass</i>	
	DMS260 Externship Site Evaluation	DMS 260 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- <i>Pass</i>	
Outcome 2 Perform appropriate ultrasound scanning procedures and record anatomic, pathologic, and/or physiologic data for interpretation by a physician	DMS250 Externship Site Evaluation	DMS 250 Final Extern Evaluation Rubric- <i>Row 9 Scanning Skills</i>	Level 2 of 2- <i>Pass</i>	
	DMS260 Externship Site Evaluation	DMS 260 Final Extern Evaluation Rubric- <i>Row 9 Scanning Skills</i>	Level 2 of 2- <i>Pass</i>	
Outcome 3 Record, analyze, and process diagnostic data and other pertinent observations made during the procedure for presentation to the interpreting physician	DMS250 Externship Site Evaluation	DMS 250 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- <i>Pass</i>	
	DMS260 Externship Site Evaluation	DMS 260 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- <i>Pass</i>	
Outcome 4 Exercise discretion and judgment in the performance of sonographic and/or other non-invasive diagnostic services	DMS250 Externship Site Evaluation	DMS 250 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- <i>Pass</i>	
	DMS260 Externship Site Evaluation	DMS 260 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- <i>Pass</i>	
Outcome 5 Demonstrate appropriate communication skills with patients and colleagues	DMS250 Externship Site Evaluation	DMS 250 Final Extern Evaluation Rubric- <i>Row 6 Communication; Row 5 Staff Rapport and Teamwork; Row 8 Patient Skills</i>	Level 2 of 2- <i>Pass</i>	

San Joaquin Valley College
PROGRAM ASSESSMENT PLAN

To be revised at each Program Review

	DMS260 Externship Site Evaluation	DMS 250 Final Extern Evaluation Rubric- <i>Row 6 Communication; Row 5 Staff Rapport and Teamwork; Row 8 Patient Skills</i>	Level 2 of 2- Pass	
Outcome 6 Act in a professional and ethical manner	DMS250 Externship Site Evaluation	DMS 250 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- Pass	
	DMS260 Externship Site Evaluation	DMS 260 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- Pass	
Outcome 7 Provide patient education related to medical ultrasound and/or other non-invasive diagnostic ultrasound techniques, and promote principles of good health.	DMS250 Externship Site Evaluation	DMS 250 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- Pass	
	DMS260 Externship Site Evaluation	DMS 260 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- Pass	
Outcome 8 Demonstrate the social skills, professional appearance, attitudes and behavior that employers expect of all SJVC graduates.	DMS250 Externship Site Evaluation	DMS 250 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- Pass	
	DMS260 Externship Site Evaluation	DMS 260 Final Extern Evaluation Rubric- <i>Overall Score</i>	Level 2 of 2- Pass	

San Joaquin Valley College
PROGRAM ASSESSMENT PLAN
 To be revised at each Program Review

Program Review & Curriculum Conferences			
This section outlines the cycle of the evaluation.			
<ul style="list-style-type: none"> Indicate which year your program reviews are held. Indicate which year your curriculum conferences are held. 			
Program Review Years	Approximately every 36 months opposite curriculum conferences	Curriculum Conference Years	Approximately every 36 months opposite program reviews

COMMUNICATION

Communication of Results	
This section identifies how results will be disseminated and communicated to stakeholders:	
<ul style="list-style-type: none"> A draft of the Program Review Report is completed by the Curriculum Technician or designee and made available to program constituents for evaluation. After the evaluation period, all documentation is uploaded to InfoZone where it is permanently housed. 	
<ul style="list-style-type: none"> A draft of the Biennial Report is completed by the Curriculum Technician or designee after a Curriculum Conference and made available to program constituents for evaluation. After the evaluation period, all documentation is uploaded to InfoZone where it is permanently housed. 	
<ul style="list-style-type: none"> Campus management and Program Directors forward information to Advisory Board members, employers, potential employers or other stakeholders who may be interested in the information. 	