

COURSE OUTLINE

FALL 2009

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COURSE TITLE: Doppler Vascular Imaging.

COURSE CODE: DI 155

**CREDIT HOURS: 45 lectures (3 credits);
30 laboratories (1credit);**

TEACHING HOURS: 12:30 pm – 3:15 pm, T & Th

TEXTBOOKS AND OTHER ASSIGNED INSTRUCTIONAL MATERIALS

Please note that this is not intended as a fully comprehensive list but should provide a good basis for lecture and ultrasound laboratory preparation. Values and nomenclature vary between textbooks.

REQUIRED TEXTBOOK:

1. Hagen-Ansert: Textbook of Diagnostic Ultrasonography, 6th Edition, Vol#2
(ISBN 0323042023, 9780323042024)

RECOMMENDED:

2. Vascular Technology: An Illustrated Review. Claudia Rumwell, Michalene McPharlin.
Published by Davies Pub., 2004.
(ISBN 0941022692, 9780941022699).

3. Vascular Technology Workbook: P. A. S. S. Series Registry Aids. Lori G. Green, Lowell Hecht,
Gulfcoast Ultrasound Institute. Published by Gulfcoast Ultrasound Institute, Incorporated, 2002.
(ISBN 193199949X, 9781931999496)

4. Appleton & Lange Review for the Ultrasonography Examination. Carol Krebs, Charles S.
Odwin, Arthur C. Fleischer, Trudy Dubinsky. Contributor Charles S. Odwin, Arthur C. Fleischer.
Published by McGraw-Hill Professional, 2004
(ISBN 0071365168, 9780071365161)

5. Peripheral Vascular Ultrasound: How, why and when. Abigail Thrush, Timothy Hartshorne.
Published by Churchill Livingstone, 1999.
ISBN 0443060495, 9780443060496

6. Ultrasound Atlas of Vascular Diseases. Carol Krebs, Vishan L. Giyanani, Ronald L. Eisenberg.
Published by Appleton & Lange, 1999.
ISBN 0838592449, 9780838592441.

7. Clinical Doppler Ultrasound. Paul L. P. Allan, W. Norman McDicken, Paul A. Dubbins, Myron A.
Pozniak. Contributor Paul L. P. Allan. Published by Churchill Livingstone Elsevier, 2006.
ISBN 0443101167, 9780443101168.

8. Peripheral Vascular Sonography: A Practical Guide. Joseph F. Polak, Joseph P. Polak.
Published by Lippincott Williams & Wilkins, 2004.
ISBN 0781748712, 9780781748711.

9. Vascular Ultrasound of the Neck: An Interpretive Atlas. Antonio Alayon, William M. McKinney,
William M. Williams, Published by Lippincott Williams & Wilkins, 2001 (ISBN 0781725348,
9780781725347)

10. Essentials of Vascular Laboratory Diagnosis. Emile R. Mohler, Marie Gerhard-Herman,
Michael R. Jaff. Published by Blackwell Publishing, 2005
ISBN 1405122153, 9781405122153

11. Vascular Diagnosis with Ultrasound: Clinical Reference with Case Studies
 Doris Neuerburg-Heusler. Published by Thieme, 2006
 ISBN 3131038322, 9783131038326

12. General and Vascular Ultrasound: Case Review. William D. Middleton
 Published by Mosby, 2001.
 ISBN 0323007368, 9780323007368

CATALOG DISCRIPTION.

The anatomy, physiology and pathology of the arterial and venous circulation systems are covered in this course. Noninvasive vascular instrumentation, protocols and techniques are introduced to the student.

PREREQUISITES:

DI 110 / UT 110 – Diagnostic Sonography Principles & Protocols
 DI 150 - Harmonic Imaging of Small Parts I (Abdomen)
 SCI 31- Human Biology
 DI 20 - Medical Terminologies
 DI 30 - Anatomy & Physiology
 DI 120 – Physical Principles of Ultrasound

DI 155 DOPPLER VASCULAR IMAGING.

WEEKS	DATE	LECTURES& LABORATOREIS
Week 1	08/25/09	Carotid And Vertebral Duplex Ultrasound
	08/27/09	<i>Ultrasound Hands-On Laboratory Trainings.</i>
Week 2	09/01/09	Carotid And Vertebral Duplex Ultrasound
	09/03/09	<i>Ultrasound Hands-On Laboratory Trainings.</i>
Week 3	09/08/09	Carotid And Vertebral Duplex Ultrasound
Week 4	09/15/09	Peripheral Arterial Vascular Imagining
	09/17/09	<i>Ultrasound Hands-On Laboratory Trainings.</i>
Week 5	09/22/09	Peripheral Arterial Vascular Imagining
	09/24/09	<i>Ultrasound Hands-On Laboratory Trainings.</i>
Week 6	09/29/09	Peripheral Venous Imaging
	10/01/09	<i>Ultrasound Hands-On Laboratory Trainings.</i>
Week 7	10/06/09	Midterm Test (70 Questions)
	10/08/09	Laboratory – Presentations
Week 8	10/13/09	Peripheral Venous Imaging
	10/15/09	<i>Ultrasound Hands-On Laboratory Trainings.</i>
Week 9	11/20/09	Peripheral Venous Imaging
	11/22/09	<i>Ultrasound Hands-On Laboratory Trainings.</i>
Week 10	11/27/09	Abdominal Blood Vessels Imaging.
	11/29/09	<i>Ultrasound Hands-On Laboratory Trainings.</i>
Week 11	11/03/09	Abdominal Blood Vessels Imaging.
	11/05/09	<i>Ultrasound Hands-On Laboratory Trainings.</i>
Week 12	11/10/09	Review – Lectures
	11/12/09	Review – <i>Ultrasound Hands-On Laboratory Trainings.</i> Laboratory – Presentations
Week 13	11/17/09	Final Examination – Written
Week 14	11/19/09	Final Laboratory Examination - Hands-On Vascular Imaging