

DMS-2820: INDEPENDENT ADVANCED STUDY

Cuyahoga Community College

Viewing: DMS-2820 : Independent Advanced Study

Board of Trustees:

2013-05-23

Academic Term:

Fall 2026

Subject Code

DMS - Diagnostic Medical Sonography

Course Number:

2820

Title:

Independent Advanced Study

Catalog Description:

Directed individual advanced study. Study/research title and specific content arranged between instructor and student. May be repeated for a maximum of six credits of different topics.

Credit Hour(s):

1-3

Lecture Hour(s):

1-3

Requisites

Prerequisite and Corequisite

Departmental approval, and instructor approval, and ENG-0995 Applied College Literacies, or appropriate score on English Placement Test.

Note: ENG-0990 Language Fundamentals II taken prior to Fall 2021 will also meet prerequisite requirements.

Methods of Evaluation:

- 1.Quizzes
- 2.Assignments
- 3.Case study presentations
- 4.Case study evaluations for implications and present pathology

Course Content Outline:

Concepts

- a.Critical thinking
- b.Problem solving
- c.Data collection techniques
- d.Analysis of technical findings
- e.Case study purpose
- f.Case study report format
- g.Case study presentation

Skills

- a.Preparing a case study
- b.Correlating findings to pathophysiology
- c.Developing, presenting and evaluating a case study

Issues

- a. Critical thinking
- b. Pathology recognition
- c. Reputable resources
- d. Communication
- e. Integration of learned concepts and knowledge
- f. Federal regulations

Religious Accommodation

Before reviewing the course schedule, students should carefully review the following religious accommodation policy and other required instructional policies:

Religious Accommodation:

Students seeking an accommodation for absences permitted under Ohio's Testing Your Faith Act must provide the instructor with written notice of the specific dates for which the student requires an accommodation and must do so not later than fourteen (14) days after the first day of instruction. Please submit requests for accommodations at this link: <https://portal2.tri-c.edu/ReligiousAccommodation/ReligiousAccommodationForm>. Students with questions about their religious accommodations under Ohio's Testing Your Faith Act may contact the College's Office of General Counsel and Legal Services by phone at 216.987.4856 or via email at legal@tri-c.edu.

Other Required Instructional Policies:

<https://www.tri-c.edu/student-resources/curriculum/documents/syllabus-part-b.pdf>

Weekly Schedule

	Topics
Week 1	Work on student selected independent project.
Week 2	Work on student selected independent project.
Week 3	Work on student selected independent project.
Week 4	Work on student selected independent project.
Week 5	Work on student selected independent project.
Week 6	Work on student selected independent project.
Week 7	Work on student selected independent project.
Week 8	Work on student selected independent project.
Week 9	Work on student selected independent project.
Week 10	Work on student selected independent project.
Week 11	Work on student selected independent project.
Week 12	Work on student selected independent project.
Week 13	Work on student selected independent project.
Week 14	Work on student selected independent project.
Week 15	Work on student selected independent project.
Week 16	Work on student selected independent project.

The Course Schedule is subject to change due to pedagogical needs, instructor discretion, parts of term, and unexpected events.

Required/Recommended Readings

Readings will be selected by student and instructor based on selected independent project.

Resources for the Instructor

Fraenkel, Jack R., Wallen, Norman E. *How to Design and Evaluate Research in Education*. 5th. Boston: McGraw-Hill/Humanities/Social Sciences/Languages, 2003.

Gay, Lorrie R. and Airasian, Peter W. *Educational Research: Competencies for Analysis and Applications*. 7th. Upper Saddle River, NJ: Prentice Hall, 2005.

Leedy, Paul D. and Ormrod, Jeanne Ellis. *Practical Research: Planning and Design*. 8th. Upper Saddle River, NJ: Prentice Hall, 2005.

McBurney, Donald H. and White, Theresa L. *Research Methods*. 7th. Belmont, CA:Wadsworth Publishing, 2006.

Mitchell, Mark L. and Jolley, Janina M. *Research Design Explained with InfoTrac*. 6th. Belmont, CA:Wadsworth Publishing, 2007.

Yin, Robert K. *Case Study Research: Design and Methods*. 3rd. Thousand Oaks, CA:Sage Publications Inc, 2003.

Otto, Catherine M. *Textbook of Clinical Echocardiography*. 3rd. Philadelphia, PA:W B Saunders, 2004.

Harry, Mark J. *Essentials of Echocardiography Cardiac Hemodynamics*. 2nd. Forney, TX:Mark J. Harry, RDCS, 2005.

Reynolds, Terry. *Cardiovascular Principles*. 1st. Phoenix, AZ:Arizona Heart Institute, 1997.

Darovic, Gloria Obluk. *Hemodynamic Monitoring: Invasive and Non-Invasive Clinical Application*. 3rd. Philadelphia, PA:Saunders, 2002.

Feigenbaum, Harvey. *Echocardiography*. 5th. Philadelphia, PA:Lippincott Williams Wilkins, 1995.

Roldan, Carlos A. *The Ultimate Echo Guide*. 1st. Philadelphia, PA:Lippincott, 2004.

Allen, Mark N. *Diagnostic Medical Sonography: Echocardiography*. 2nd, Vol.2. Philadelphia, PA:Lippincott, 1998.

Additional Resources for the Instructor

David Adams *Video Case Studies of Echocardiography Volumes 1 and 2*, Woodlands, TX, ESP Inc. 1996

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