

Valencia College  
School of Health Sciences  
BS Cardiopulmonary Sciences Program

**RET 3287 CARDIOPULMONARY DIAGNOSTICS**  
**CRN 21974**

**SYLLABUS- SPRING 2024**

**Instructor:** Anita Byrd, MEd, RRT, RRT-NPS  
**Email:** abyrd22@ valenciacollege.edu, and Canvas Inbox  
**Office:** BS Cardiopulmonary Sciences Program  
407-582-5816  
**Office Hours:** Virtual by request

**COURSE INFORMATION**

**Course Title:** Cardiopulmonary Diagnostics  
**Credit Hours:** 3 credits  
**Pre-requisite:** Admission to BS Cardiopulmonary Sciences Program  
**Refund of Fees:** The Drop/Refund deadline for this course is January 16, 2024  
**Instructional Method:** Canvas Online Learning

**Meeting days/times/location:** This is an instructor-facilitated course in the online in Canvas. All learning activities, discussions and assignments are completed online. There is 24/7 access to the course, and students are expected to plan their own schedule to complete the readings, learning activities and assignments within the deadlines indicated. There are no required class meetings on campus. The expected time commitment for this 3 credit online course is a minimum of 9 hours of student work and participation.

**Course Description:** This course is designed to provide students with an understanding of non-invasive cardiopulmonary diagnostic procedures. These primary diagnostic studies include cardiopulmonary exercise testing, non-invasive cardiac and respiratory diagnostics and monitoring, with an emphasis on data analysis and clinical application.

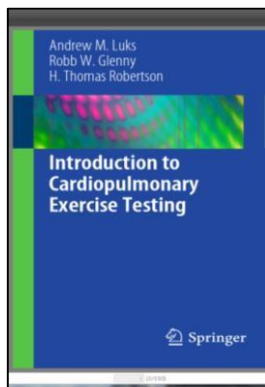
**Course Learning Outcomes:**

- The student will be able to assess a patient with cardiopulmonary disease.
- The student will be able to choose and evaluate non-invasive diagnostic procedures.
- The student will be able to develop treatment plans for patients with cardiopulmonary disease.

**Valencia College Core Competencies:** The faculty of Valencia College have identified four core competencies, **Think, Value, Communicate, and Act**, which define learning outcomes for the successful Valencia graduate. These competencies provide the context for learning and assessment at Valencia. In this course, these core competencies will be developed and practiced through critical thinking and decision making exercises, online discussion posts, case study analysis, online research, and reasoned choices made by acquiring, analyzing, synthesizing and evaluating knowledge. Effective reading,

listening, writing and verbal communication skills will also be developed as key components in demonstrating these core competencies.

**Required Text:** Luks, A.M. (2013). *Introduction to Cardiopulmonary Exercise Testing*. Springer, NY  
Text or eBook: ISBN 978-1-4614-6282-8 (Text) ISBN 978-1-4614-6283-5 (eBook)



**Additional Handouts, Readings and Learning Resources:** Additional learning modules and materials will be provided within Canvas by the instructor; Internet-based learning resources and research are an important component of this course.

**Library Resources:** There are a multitude of Valencia Library services available to students; the following services as well as many others can be found at: <http://valenciacollege.edu/library>

- **Borrowing and Circulation.** Students can borrow books from the library; there are also many eBooks available online.
- **Reference Services.** Reference librarians are available to help students. This is a free service on campus to help students with research, located at the library 2<sup>nd</sup> floor reference desk.
- **Online Resources.** Most research can be done from home, as many resources and help from librarians, are also available online.
- **Free Skillshops.** The Library's Computer Access Lab offers many free, 1-hr workshops on all types of computer software, including Microsoft Office products, Canvas, and Windows.
- **Ask-a-Librarian E-mail, Chat and Texting.** Students can contact a Florida librarian with research questions using this statewide service with extended hours.

**Online Participation/ Attendance Expectations:** For online courses, attendance is determined by consistency in logging in and accessing the course content and completing discussion posts and assignments according to the schedule. According to Valencia policy, students who do not engage in an "academically-related activity" during the first week of class will be dropped as a "No-Show". There will be a specific assignment to address this requirement posted in Canvas.

Questions and communication regarding course content should be posted under the specified discussion topic in Canvas. The instructor is available for help via email or by telephone, and via online meetings scheduled at a designated time. Students are encouraged to seek assistance from the instructor as needed. Students are expected to check Canvas and their Atlas email for important communication and updates on a regular basis, and at a minimum of every other day. Failure to

participate in online activities and complete discussion posts and assignments due to computer error is not considered to be an acceptable excuse. Technical communication issues that may be experienced by the student should be documented, e.g. copy emails, save screen shots, etc. and communicated to the instructor immediately.

**Note:** *Just logging into the course does NOT count as attendance. In order for the instructor to document that you are actually in the class and actively participating, you must submit the first assignment by the scheduled due date, during Week 1, and continue to stay engaged in the course throughout the entire semester.*

**Resources and Technical Requirements for Online Courses:** In order to participate in online courses, students must have access to a computer with reliable internet access. Valencia offers many online resources to help students with the online learning environment. "Getting Started Online, Valencia 101" is a great place to start. Steps needed to determine computer system requirements and browser compatibility, as well as tutorials and strategies for online learning using the Blackboard learning system, are all available at: <http://valenciacollege.edu/oit/learning-technology-services/student-resources>

### **IMPORTANT VALENCIA DATES \***

Classes Begin	January 08, 2024
Withdrawal Deadline	January 16, 2024
Final Exams	April 22– April 28, 2024
Holidays	January 15, 2024 (MLK Day) March 18-24. 2024 (Spring Break)

\*The Valencia College Calendar can be accessed at: <http://valenciacollege.edu/calendar>.

### **ASSESSMENT**

Your grade will be determined by:

Written Assignments/Discussion Posts	30%
Case Studies	10%
Quizzes	10%
Mid-Term Exam	20%
Final Exam	20%
Group Project	10%

### **GRADING SCALE**

A	93-100%
B	85-92%
C	76-84%
D	69-75%
F	Below 69%

**Weekly Schedule of Topics:** This represents the planned schedule; dates and topics may be subject to change. [Check Canvas for Updates.](#)

Week	Dates	Topic
1	Jan 08 – Jan 13	Orientation to Course
2	Jan 14 – Jan 20	Cardiac and Pulmonary Response to Exercise Testing in Health and Disease
3	Jan 21 – Jan 27	Conducting a Cardiopulmonary Exercise Test
4	Jan 28 - Feb 3	Interpreting Results of a Cardiopulmonary Exercise Test
5	Feb4 – Feb 10	Case Studies & Patterns of Limitation
6	Feb 11– Feb 17	Indices of Cardiopulmonary Physiology and Mechanics
7	Feb 18 – Feb 24	Hemodynamic and Cardiovascular Assessment
8	Feb 25– Mar2	Review and Mid-Term Exam: February 28- February 29,
9	Mar 3 – Mar 9	Pulmonary Diagnostics
10	Mar 10 – Mar 16	Point-of-Care Evaluation of Cardiopulmonary Function
11	Mar 17– Mar 23	
12	Mar 24 – Mar 30	Cardiopulmonary Evaluation in ICU, ED & Cath Lab - Group Project
13	Mar 31 – Apr 6	Cardiopulmonary Evaluation in the ICU ED & Cath Lab - Group Project
14	Apr 7 – Apr 13	Current Trends in Interventional Cardiopulmonary Procedures – Group Presentations
15	Apr 14 – Apr 20	Current Trends in Interventional Cardiopulmonary Procedures – Group Presentations
16	Apr 21 – April 27	Review and Final Exam: April 24 – April 25

**Exams:** Exams will be administered online in Canvas, utilizing Honor lock. The dates and times for each exam will announced within the course schedule in Canvas. The Mid-Term and Final Exams will be available for a designated two-day period, and may be taken at any time during the designated time frame, within the allowed time limit. A web cam may be required for online exams.

Completed exams will not be routinely made available for review by the student; however, this may be scheduled by contacting the instructor via phone or e-mail. The printing and/or distribution of any quiz or exam items are strictly prohibited. Missing the final exam will result in a grade of F until the student takes a make-up final, at which time a grade of A, B, C, D or F will be given."

**Make-up Exams:** If you are unable to take an exam as scheduled, you must notify the instructor prior to the scheduled test window. Make-up exams will not be available unless prior arrangements have been made. Approved make-up examinations must be scheduled within 24 hours of the missed exam. There are no dropped tests or re-testing for the Mid-Term and Final Exams.

**Work Missed:** Students must complete course assignments and activities according to their weekly due dates. Weekly assignments are due no later than midnight on each Saturday. Discussion posts are due no later than midnight on each Wednesday. As a general rule, there are no make-ups for missed assignments and discussion posts. Late assignments will be accepted up to one day after the due date, with a 10% penalty. Extenuating circumstances that interfere with completing course requirements, such as death of a family member, immediate family medical emergency must be documented and may be discussed with the instructor.

**Extra Credit Policy:** There will be limited opportunities to earn extra credit but not to make up for missed assignments. Extra credit, when made available, will be posted in Blackboard as the course progresses.

**Withdrawal Deadline and Policy:** According to Valencia College policy: "A student who withdraws from class before the **withdrawal deadline of March 15, 2024** will receive a grade of "W." It is the student's own responsibility to withdraw before the withdrawal deadline. A student is not permitted to withdraw from class after the withdrawal deadline; if you remain in the class after the withdrawal deadline, you will receive a grade of A, B, C, D, F or I, based on work completed. An "I" grade will only be assigned under extraordinary circumstances that occur near the end of the semester. If you receive an "I", the work missed must be made up during the following semester, at which time you will get an A, B, C, D or F. Failure to make up the work during the following semester will result in you getting a grade of "F" in the course. Any student who withdraws from this class during a third or subsequent attempt in this course will be assigned a grade of "F."

In the event that a student does not meet the online participation and attendance requirements described in the syllabus, the faculty member is permitted to withdraw a student from their class up to the beginning of the final exam period. If withdrawn by the instructor, your transcript will reflect a "W" and this will count as one attempt for this course.

If you have decided not to complete this course, it is better for you to drop the course yourself during the add/drop period to avoid negative consequences. During a first or second attempt in the same course at Valencia, if you withdraw, or are withdrawn by the professor, you will receive a W (Withdrawn). You will not receive credit for the course, and the W will not be calculated in your grade point average; however, the enrollment will count in your total attempts in the specific course.

**Note:** Students on financial aid should consult an advisor or counselor before withdrawing from a course; there may be financial implications to the student which he or she must know about to make an informed decision before withdrawing from a course. Students with certain forms of scholarships who withdraw or are withdrawn from a class must pay the college for the cost of the class. Other scholarship sponsors may also require repayment.

### **ADDITIONAL CLASSROOM INFORMATION**

**Faculty/Student Communication:** Valencia College is committed to providing each student a quality educational experience. Faculty members have set high standards of instruction for themselves and for you. If you have a problem in a class, your first step is to talk to your instructor. If you are still dissatisfied, you may talk with the academic dean of the division. We are committed to working together to resolve any issues that may arise.

**Expected Student Conduct:** By enrolling at Valencia College, the student assumes responsibility for becoming familiar with and abiding by the general rules of conduct. The primary responsibility for managing the online classroom environment rests with the faculty. Violation of any online classroom or Valencia rules may lead to disciplinary action up to and including expulsion from Valencia. Disciplinary action could include being withdrawn from class, disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions. You will find the Student Code of Conduct in the current Valencia Student Handbook.

**Academic Integrity:** As healthcare professionals you are expected to adhere to and maintain the highest standards of academic integrity and professional and ethical conduct. Unless otherwise stated, all assignments, quizzes and exams are to be completed individually by each student enrolled. You may not communicate with other students during completion of a quiz or examination. You are expected to submit only your own original work and not cheat by giving answers to others or taking them from anyone else. According to the Random House Dictionary of the English Language, 2d ed., "*Plagiarism is the unauthorized use or close imitation of the language and thoughts of another author and the representation of them as one's own original work*". If you copy someone else's words into your paper or project and you do not give the original author appropriate credit for their work, you are plagiarizing. You are stealing the hard work of another person and passing it off as if it were your own effort. Working with other students on individual assignments, giving or receiving assistance during quizzes or exams is a form of academic dishonesty and will be considered cheating. Copying or printing of any quiz or test questions (for any purpose) is expressly prohibited and also considered cheating.

**NOTE:** *Plagiarism and Cheating of any kind on an examination, quiz, or assignment will result in at least an "F" for that assignment (depending on the severity of the case, may lead to an "F" for the entire course) and may be subject to appropriate sanctions according to the Student Code of Conduct in the current Valencia Student Handbook.* <http://valenciacollege.edu/policies/>.

**Safe Assign:** All written assignments are subject to submission through plagiarism detection software. Safe Assign is an automated system which instructors can use to quickly and easily compare each student's papers and assignment with billions of web sites. It is also an enormous database of student papers that grows with each submission. After the assignment is processed, the instructor receives a

report from Safe Assign that states if and how another author's work was used in the assignment. For a more detailed look at this process, visit: <http://www.safeassign.com/>

**Online Rules of Student Behavior / Netiquette:** The term "**netiquette**" refers to the awareness of the need for a certain code of behavior (etiquette) in electronic environments (the net) ... Net + Etiquette = netiquette. All students are expected to:

- Show respect for the instructor and for other students in the class
- Respect the privacy of other students
- Express differences of opinion in a polite and rational way
- Maintain an environment of constructive criticism when commenting on the work of other students
- Avoid bringing up irrelevant topics when involved in group discussions or other collaborative activities

Students should not:

- Show disrespect for the instructor or for other students in the class
- Send messages or comments that are threatening, harassing, or offensive
- Use inappropriate or offensive language
- Convey a hostile or confrontational tone when communicating or working collaboratively with other students
- USE ALL UPPERCASE IN THEIR MESSAGES -- THIS IS THE EQUIVALENT OF SHOUTING!!

If a faculty member feels that a student is violating any of the above guidelines, they will contact that student to discuss the situation in person. If you feel that another student is behaving inappropriately, please send your instructor a private e-mail message explaining the situation as soon as possible.

**Valencia ID Cards:** All students are required to obtain a Valencia ID card in order to access the campus and any student services that are provided. A valid Valencia ID is only form of identification that is accepted at the Library and Testing Center. After you have registered and paid for your fees, bring a photo ID to Student Development to obtain your Student ID card. Student ID's are free. If your ID is lost, there is a \$5 fee to replace it.

## **STUDENT HELP / SUPPORT SERVICES**

Your success is very important to us! Students are encouraged to seek assistance from the instructor as needed. When additional support is needed, Valencia provides many student support resources including: Computer Labs, Learning Centers, Student Success Workshops, Online Tutoring, Testing Center Support and Writing Consultations. For more information, go to:

<http://valenciacollege.edu/learning-support/>

**Baycare Behavioral Health's Student Assistance Program:** Valencia is committed to making sure all our students have a rewarding and successful college experience, and offers assistance to students in need of private counseling. To that purpose, Valencia students can get immediate help that may assist them with psychological issues dealing with stress, anxiety, depression, adjustment difficulties,

substance abuse, time management as well as relationship problems dealing with school, home or work. Students have 24 hour unlimited access to the Baycare Behavioral Health's confidential student assistance program phone counseling services by calling (800) 878-5470. Three free confidential face-to-face counseling sessions are also available to students.

**Students with Disabilities:** Students with disabilities who qualify for academic accommodations must provide a Notification to Instructor (NTI) form from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class; accommodations will not be applied retroactively. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities. The OSD is located on the West Campus SSB, Rm. 102 Phone: 407-582-1523 Fax: 407-582-1326 .

**Disclaimer:** The course outline and syllabus are subject to change as needed; changes will be announced in Blackboard and/or via ATLAS email, in a timely manner. Your continued participation in this course after the drop-add deadline period constitutes an agreement with and an acceptance of the conditions presented in this syllabus.