

**SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE
SCHOOL OF NURSING**

COURSE TITLE: NURS 351 - Basic ECG

COURSE DESCRIPTION: Identify dysrhythmias. Identify waveforms and associated physiologic processes. Analyze and interpret ECG rhythms and dysrhythmias.

COURSE CREDIT AND CLOCK HOURS: 2 credits

PREREQUISITES: BIOL 240A Minimum Grade of C AND BIOL 240B Minimum Grade of C

FACULTY: **Frank Lyerla PhD, RN**
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Course Objectives: As outcome measures for this course, the student:

1. Identifies anatomical structures related to cardiac electrophysiology
2. Identifies ECG waveforms and explains associated physiologic processes
3. Demonstrates appropriate ECG lead placement
4. Analyzes then interprets ECG rhythms and dysrhythmias
5. Differentiates lethal and non-lethal dysrhythmias
6. Discusses appropriate treatments for identified dysrhythmias

Required Texts: Aehlert, B. (2023). *ECGs made easy. Workbook* (7th ed.), St. Louis, MO: Elsevier. ISBN: 978-0-323-79425-1

NOTE: This book should be purchased as you will need to write in the blank spaces.

Planned Learning Experiences

- Readings
- Discussions
- Workbook exercises
- Video recorded scenarios with a human patient simulator

Evaluation Methods:

There will be three online exams and one final exam.

Grade Allocation:

Exam 1	23%
Exam 2	23%
Exam 3	23%
Final Exam	31%

Grading Scale:

A = 93 – 100
B = 85 – 92
C = 76 – 84
D = 68 – 75
F = below 68

Attendance

This is a 100% online course with no class meetings.

Attendance is an expected behavior of students. The School of Nursing adheres to the University policy on attendance, which can be found in the SIUE Undergraduate Catalog:
<http://www.siu.edu/POLICIES/1i9.html>.

Communication

You may contact the instructor via Blackboard messages, email or personal cellphone. The instructor's cell phone number will be announced on Blackboard.

Schedule (Our course starts on December 15, 2025 and runs through January 4, 2026)

DATE	ACTIVITY
<u>Week 01</u>	
Monday	Introduction / View Recording, Chapter 1 (A&P): Read Text & View Recording
Tuesday	Chapter 2 (Basic Electrophysiology): Read Text & View Recording
Wednesday	Exam I (Chapters 1 and 2): Online exam open 0800-2345 ~ contact instructor as needed to discuss / review Exam I
Thursday	Chapter 3 (Sinus Mechanisms): Read Text & View Recording
Friday	Chapter 4 (Atrial Rhythms): Read Text & View Recording

<u>Week 02</u>	
Monday	Chapter 5 (Junctional Rhythms): Read Text & View Recording
Tuesday	Exam II (Chapter 3, 4 & 5): Online exam open 0800-2345 ~ contact instructor as needed to discuss / review Exam II
Wednesday	Chapter 6 (Ventricular Rhythms): Read Text & View Recording
Thursday	<u>Merry Christmas!</u>
Friday	Chapter 7 (AV Blocks) & Chapter 8 (Pacemakers): Read Text & View Recording
<u>Week 03</u>	
Monday	Exam III (Chapter 6, 7, & 8): Online exam open 0800-2345~ contact instructor as needed to discuss / review Exam III
Tuesday	Chapter 9 (12-Lead EKG) & Real strip review: Read Text & View Recording
Wednesday	Human Patient Simulator: View Recording
Thursday	<u>Happy New Year!</u> Review Final Exam: View the Posted Tip Sheet
Friday	Final Exam (Comprehensive): Online exam open 0800-2345 ~ contact instructor as needed to discuss / review Exam II

Expectations of Students

Students enrolled at SIUE have the responsibility to be good citizens of the University and the community, to pursue their educational goals with honesty and integrity, to contribute to an environment which encourages free inquiry and expression, to abide by all applicable laws and SIUE policies and procedures, and to respect the rights and responsibilities of fellow students, faculty and staff. In particular, it is expected that students will:

1. Attend class on a regular basis, giving special attention to the class attendance policies of instructors and the University.
2. Know and follow instructions in course syllabi.
3. Be present at the beginning of class and remain in the classroom throughout the class period.
4. Be prepared for class.
5. Use appropriate language in class.

6. Be aware of and follow [The Student Conduct Code](#) and other University policies.
7. Respect the rights of others to hold various points of view.
8. Become familiar with program requirements and expectations stated in the undergraduate and graduate catalogs, as appropriate.
9. Develop or create any paper, project, case study, art form or other print or non-print product according to established standards of a particular academic discipline conveyed by an instructor in the discipline.
10. Develop or create any paper, project, case study, or art form, or other print or nonprint product utilizing their own ideas. When using the ideas of others, use proper citations.
11. Create or generate information or data by using one's own methodology, experiment, or procedure and subject the information or data to careful examination and study. When using another's data, proper citations must be used.
12. Resolve conflicts, disputes, and differences through participation and by thoughtful discussion.
13. Balance responsibilities and obligations to family and work with responsibilities for the quality of education, particularly in the apportionment of time.
14. Follow University procedures, including submission of information in a timely manner to meet deadlines, and keep the University informed of all changes in name, address, telephone number, and the University identification number.

Approved Content Outline

The content outline for the course should include all topics/content as approved by the UGCC as listed in the Undergraduate Content in the Faculty Handbook.

Content
Cardiac anatomy, physiology, and electrophysiology ECG waveforms ECG rhythm interpretation ECG lead placement Interpretation of rhythms/dysrhythmias Treatment for dysrhythmias Dysrhythmias across the lifespan

Academic integrity/plagiarism

Students are reminded that the expectations and academic standards outlined in the [Student Academic Code \(3C2\)](#) apply to all courses, field experiences and educational experiences at the University, regardless of modality or location.

Plagiarism is the use of another person's words or ideas without crediting that person. Plagiarism and cheating will not be tolerated and may lead to failure on an assignment, in the class, or dismissal from the University, per the [SIUE academic dishonesty policy](#). Students are responsible for complying with University policies about academic honesty as stated in the [University's Student Academic Conduct Code](#).

Unless expressly allowed by the instructor, the use of artificial intelligence (AI) tools and applications (including ChatGPT, DALL-E, and others) to produce content for course assignments and assessments is a violation of SIUE's academic policy and is prohibited.

Late assignments

Students will receive a grade of zero for exams submitted late. Students that are not able to submit an exam by the deadline must notify the instructor prior to the deadline and make other arrangements.

Recordings of Class Content

Faculty recordings of lectures and/or other course materials are meant to facilitate student learning and to help facilitate a student catching up who has missed class due to illness or quarantine. As such, students are reminded that the recording, as well as replicating or sharing of any course content and/or course materials without the express permission of the instructor of record, is not permitted, and may be considered a violation of the University's Student Conduct Code (3C1), linked here:

<https://www.siue.edu/policies/3c1.shtml>.

Technology Recommendations for Courses Delivered in Online/Hybrid Formats:

General Windows and Mac Computer Specifications

- Pentium M, 6th Generation or better Intel i-series, or AMD A8 or higher processor
- 16 GB RAM
- 250 GB or higher SSD, with minimum 30 GB free
- Dual band or higher wireless N card if applicable
- Windows OS 10 or higher; Mac OS 11 or higher

Browser requirements: The latest version of Google Chrome or Mozilla Firefox are recommended. [Check your browser](#) to see if it meets the requirements for best performance.

Review the [Recommended Software](#) for SIUE students.

An internet service provider (ISP) is required and can be hardwired, wireless, or satellite.

If you get bumped out of the exam, contact the instructor immediately to resolve the issue. [Information Technology Services \(ITS\)](#) can help with connectivity issues or troubleshooting other problems. They can be reached at 618-650- 5500.

Services for Students Needing Accommodations

Students needing accommodations because of medical diagnosis or major life impairment will need to register with Accessible Campus Community & Equitable Student Support (ACCESS) and complete an intake process before accommodations will be given.

Students who believe they have a diagnosis, but do not have documentation, should contact ACCESS for assistance and/or appropriate referral. The ACCESS office is located in the Student Success Center, Room 1203. You can also reach the office by emailing us at myaccess@siue.edu or by calling [618-650-3726](tel:618-650-3726).

If you feel you would need additional help in the event of an emergency situation, please notify your instructor to be shown the evacuation route and discuss specific needs for assistance.

Diversity and Inclusion

SIUE is committed to respecting everyone's dignity at all times. In order to learn, exchange ideas, and support one another, our virtual and physical classrooms must be places where students and teachers feel safe and supported. Systems of oppression permeate our institutions and our classrooms. All students and faculty have the responsibility to co-create a classroom that affirms inclusion, equity, and social justice, where racism, sexism, classism, ableism, heterosexism, xenophobia, and other social pathologies are not tolerated.

The [Inclusive Excellence, Education, and Development Hub](#) is an excellent resource for students for support and community. Any person who believes they have experienced or witnessed discrimination or harassment can contact the Office of EOA/Title IX Coordination (618) 650-2333 or eoatitleix@siue.edu.

School of Nursing Statement on Diversity

The School of Nursing (SON) defines diversity as the ability to accept, value, and celebrate similarities and differences among individuals in terms of race, ethnicity, national origin, religion, age, gender, sexual orientation, ability/disability, social and economic status or class, education, beliefs and related attributes of all people.

The SON is committed to providing equal opportunity access to resources that promote success among all students, staff, and faculty.

Full School of Nursing statement on diversity can be accessed in the School of Nursing Student Handbook.

Other Policies

The following policies are applicable to this course. A complete description of these policies can be found in the University Undergraduate Catalog or the Baccalaureate Program Nursing Student Handbook. The Student Handbook is posted in the RN/BS Program Immersion.

Professional Behavior Guidelines: Baccalaureate Student Handbook – Academic Year 2020-2021

Statement for Academic Integrity: Baccalaureate Student Handbook – Academic Year 2020-2021

Technology and Internet Standards of Conduct: Baccalaureate Student Handbook – Academic 2020-2021

Policy for the Use of Digital Media: Baccalaureate Student Handbook – Academic Year 2020-2021

Regulation of Nursing Practice: <http://www.idfpr.com/profs/Nursing.asp>

Additional Support

Academic and Other Student Services

As an enrolled SIUE student, you have a variety of support available to you, including:

- [Lovejoy Library Resources](#)
- [Academic Success Sessions](#)
- [Tutoring Resource Center](#)
- [The Writing Center](#)
- [Academic Advising](#)
- [Financial Aid](#)
- [Campus Events](#)
- [Counseling Services](#)

If you find that you need additional support, please reach out to me and let me know.