

Heart of Georgia Technical College
560 Pinehill Road
Dublin, Georgia 31021

COURSE SYLLABUS

COURSE TITLE: Advanced Critical Care Monitoring

NUMBER: RTT 214

INSTRUCTOR: Diana Robbins, RRT

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Office Visit: By appointment only

COURSE DESCRIPTION: Provides a study of advanced critical care techniques for hemodynamic and noninvasive monitoring. Topics include: arterial pressure monitoring, central venous catheters, pulmonary artery catheters, cardiac output measurement, and noninvasive monitoring techniques. Hours per week: Class -2, Lab - 0. CREDITS: 2

PREREQUISITES/COREQUISITES: RTT 112, RTT 113, RTT 193

DEMONSTRATED COMPETENCIES:

1. Discuss indications and hazards for arterial pressure monitoring, central venous catheters, pulmonary artery catheters, cardiac output measurements, and noninvasive monitoring.
2. Perform or compute arterial pressure values, central venous values, pulmonary artery values, and cardiac output.
3. Discuss and explain the measured value significance of arterial pressures, central venous pressures, pulmonary artery pressures, cardiac output and noninvasive monitoring values.

TOPICAL OUTLINE:

- I. Arterial Pressure Monitoring
 - A. Review anatomical and physiological principles
 - B. Indications and hazards
 - C. Measured values
- II. Central Venous Catheters
 - A. Review anatomical and physiological principles
 - B. Indication and hazards
 - C. Measured values
- III. Pulmonary Artery Catheters
 - A. Review anatomical and physiological principles
 - B. Indications and hazards
 - C. Measured values
- IV. Cardiac Output Measurements
 - A. Review anatomical and physiological principles
 - B. Indications and hazards
 - C. Measured values
- V. Noninvasive Monitoring Techniques
 - A. Review anatomical and physiological principles
 - B. Indication and hazards
 - C. Measured values

REQUIRED TEXTBOOK(S): Wilkins, Egan's Fundamentals of Respiratory Care, 8th Edition, Mosby 2003

METHODS OF INSTRUCTION:

The course will be presented through lectures, discussions, audio-visual materials, class or laboratory projects, daily assignments, written projects, written reports, prepared speeches, library assignments, field trips, guest speakers, and tests and quizzes.

MATERIALS/TOOLS REQUIRED: Pencils, pens, paper, calculator, textbooks, etc.

WORK ETHICS GRADE:

Evaluation of a wide range of behaviors commonly called Work Ethics will also be incorporated into various aspects of the course. These behaviors include, but are not limited to: attendance, character, teamwork, appearance, attitude, productivity, organization, communication, cooperation, and respect. These aspects of Work Ethics are considered to be extremely important and will be stressed throughout the course of your educational Program. Students will receive a 'Progress Report' for Work Ethics at Midterm and will receive a Final Work Ethics grade in each class at the end of the Quarter. It is necessary for each Student to be aware of the fact that their Work Ethics grades are included on their Transcripts and may be viewed by potential employers.

ATTENDANCE POLICY:

Students are expected to attend class regularly and to be on time for each class. Instructors keep accurate records of absence and tardiness and attendance records will become part of both the student's course grade as well as their Work Ethics Grade.

Attendance and punctuality includes beginning of class period, return from breaks and staying until class completion. Any student that misses more than one-third (33%) of a scheduled class session will be counted absent for the entire class session. Three class tardies or early dismissals are equivalent to one absence. Whenever a student's absences exceed 10% of the total scheduled contact hours for the class, the instructor will perform an administrative withdrawal of the student from the class.

Students are expected to adhere to all classroom and clinical attendance policies as specified in the Respiratory Therapy Program Handbook.

TESTING FORMAT:

Quizzes or test may include matching, multiple choice, true-false, completion, and essay items. Any student absent on the day of an examination, without prior notification and approval from the Instructor, will not be permitted to reschedule the exam and will receive an automatic "0" grade for that exam. Make-up examinations are at the Instructor's discretion only under extenuating emergency circumstances. The instructor reserves the right to request a physician's note for any absence due to illness on the day of an exam. An alternate version of the exam will be administered under these circumstances. Assuming prior notification is received for an unapproved absence, the Instructor may agree to allow the Student to be given the opportunity to take a retest with the highest grade possible being a 70%. In the event that the Instructor does allow a make-up examination to be administered, the Student must be prepared to complete it immediately upon their return.

GRADING SYSTEM:

Grades will be assigned according to the following scale: A: 90–100 B: 80–89 C: 70–79 D: 60–69 F: 59 and below

COURSE WEIGHTS:

Homework and Quizzes:	20% of Final Course Grade
Tests:	30% of Final Course Grade
Presentation	15% of Final Course Grade
Computer Simulations	10% of Final Course Grade
Final:	25% of Final Course Grade

WITHDRAWING FROM CLASS:

Prior to mid term: W

Midterm-8th week

Grade of 60 or above: WP

Grade of 59 or above: WF

8th week-term end: F

Unable to complete: I

COURSE WEIGHTS:

Homework Assignments and Quizzes:	20% of Final Course Grade
Computer Simulations:	15% of Final Course Grade
Presentation/ Service	15% of Final Course Grade
Tests:	25% of Final Course Grade
Final:	25% of Final Course Grade

ACADEMIC IRREGULARITIES:

A student commits an academic irregularity when any of the following are involved:

1. Copying another student's work or plagiarizing any report, project, program, or assignment.
2. Copying answers from another student or use of unauthorized notes during an examination.
3. Theft or unauthorized possession of examinations. NOTE: possession of any old exams or quizzes is considered unauthorized possession

Such academic irregularities could result in one or more of the following:

1. A "O" will be given for the test or lab project/report.
2. An "F" will be given for the course.
3. Dismissal from the program.

SPECIAL NEEDS:

To ensure that students have every opportunity to opportunity to success in their studies, other services such as tutoring and study skills are available. Students interested in these services should talk to the instructor, department chairperson or see TRACS for assistance. Any student who has educational needs or physical limitations may contact Mrs. Barfoot at 274-7652 as Heart of Georgia Technical College provides services for both.

NON-DISCRIMINATION STATEMENT

Heart of Georgia Technical College, (HGTC), does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, political affiliation or belief, disabled veteran, veteran of the Vietnam Era, or citizenship status (except in those special circumstances permitted or mandated by law). This nondiscrimination policy encompasses the operation of all educational programs and activities including admissions policies, scholarship and other college-administered programs, including any Workforce Investment Act of 1998 (WIA) Title I-financed programs. It also encompasses the employment of personnel and contracting for goods and services. HGTC shall promote the realization of equal opportunity through a positive continuing program of specific practices designed to ensure the full realization of equal opportunity.

This policy of nondiscrimination is consistent with Title IX of the Educational Amendments of 1972, Title VI of the Civil Rights Act of 1964, Title VII of the Civil Rights Act of 1964, Executive Order 11246, the Equal Pay Act, the Age Discrimination in Employment Act, the Americans With Disabilities Act, Section 504 of the Rehabilitation Acts of 1973, Section 503 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, the Immigration Reform and Control Act of 1986, the Workforce Investment Act of 1998, and O.C.G.A. § 45-19-21 and other related state statutes.

The following individuals are the designated employees responsible for coordinating the College's efforts to implement this non-discriminatory policy and are located at 560 Pinehill Road, Dublin, GA 3102.

Title II (II-8.500) Americans with Disabilities Act of 1990; Section 504 of the Rehabilitation Act of 1973:

- **Designee for Students:** Special Needs Facilitator, (478) 274-7652
- **Designee for Employees:** Human Resources Specialist, (478) 274-7934

Title IX of the Education Amendments of 1972; Title VI of the Civil Rights Act of 1964:

- **Designee for Students:** Director of Career Services, (478) 274-7643
- **Designee for Employees:** Human Resources Specialist, (478) 274-7934