Jackson COLLEGE

22 Spring Semester

Pathophysiology 1

NRS 217.H50 and NRS 217.H51

Number of Credits: 2

Contact Hours: 21.25 hours (online) 8.75 (face-to-face) of class

Meeting Times: Wednesdays at registered times

Location: Online and HLC 104

Instructor: Crystal Miller, MSN, RN

Contact Phone: (517) 796-8629 (Not in use when not on Campus)

Contact Email: millercrystalm01@jccmi.edu (Best method for communication)

Online Office Hours: by appointment only

Course Description

This course challenges students to apply the fundamental principles of pathophysiology in the management of the most relevant acute and chronic diseases within the framework of the nursing process. The student will use pathophysiology knowledge to develop sound clinical reasoning, promote a spirit of inquiry, and build a strong foundation for a professional identity.

Prerequisite(s)

- NRS 110 Nursing Fundamentals
- NRS 111 Nursing Skills
- NRS 116 Pharmacology
- NRS 119 Health Assessment

Lecture Schedule

WEEK #	DATE	TOPIC	HOMEWORK
1	1/10/22 – 1/16/22	CELLS AND CANCER	SEE JETNET
2	1/17/22 – 1/23/22	CARDIOVASCULAR 1	SEE JETNET
3	1/24/22 – 1/30/22	CARDIOVASCULAR 2	SEE JETNET
4	1/31/22 – 2/6/22	ENDOCRINE	SEE JETNET
5	2/7/22 – 2/13/22	RESPIRATORY/PULMONARY	SEE JETNET
6	2/14/22 – 2/20/22	DIGESTIVE	SEE JETNET
7	2/21/22 – 2/27/22	MULTISYSTEM REVIEW	SEE JETNET

Program Learning Outcomes

Program Learning Outcomes	Level Learning Outcome	Student Learning Outcome
Upon successful completion of the program, the graduate will:	Upon successful completion of the level, the student will:	Upon successful completion of the course, the student will:
Human Flourishing: Advocate for culturally diverse clients, families, significant others, and members of the healthcare team in ways that promote self-determination, integrity, and ongoing growth as human beings to reach their maximum potential in various healthcare environments throughout the lifespan.	**Human Flourishing:** Advocate for culturally diverse clients and families through the provision of evidence-based care for varied client populations in ways that promote self-determination, integrity and ongoing growth.	**Human Flourishing:** Assimilate skills to support culturally diverse clients and families to reach their maximum potential while experiencing stress, family crisis, and transitions in the increasingly complex, critically ill, and/or multiple clients.

Program Learning Outcomes	Level Learning Outcome	Student Learning Outcome
Nursing Judgment: 1. Make judgments in practice, substantiated with evidence, that integrate nursing science into the provision of safe and quality care that promotes the health of clients throughout the lifespan. 2. Demonstrate competency in nursing health care technology and informatics to communicate, manage knowledge, mitigate error, and support organizational reimbursement.	**Nursing Judgment:** 1. Using the nursing process and evidence-based practice, prioritizes and provides safe, quality, client-centered care for increasingly complex, critically ill, and/or multiple clients. 2. Evaluate quality improvement and analysis of aggregate data for the increasing complex, critically ill and/or multiple clients.	**Nursing Judgment:** Predict the normal pathophysiological progression and potential deleterious outcomes associated with various morbidities.
Professional Identity: Implement one's role as a nurse in ways that reflect integrity, responsibility, legal and ethical practices, and an evolving identity as a nurse committed to evidence-based practice, caring, advocacy and safe quality care for culturally diverse clients throughout the lifespan.	**Professional Identity:** 1. Integrate legal, ethical and practice standards into the care of increasingly complex, critically ill, and/or multiple clients. 2. Transition from the role of student to that of a graduate nurse while developing leadership characteristics.	**Professional Identity:** Value a level of professionalism that is congruent with the inherent values, ethics, and behaviors of the discipline of nursing.
Spirit of Inquiry: Evaluate evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions, and offer new insights to improve the quality of care for clients throughout the lifespan.	**Spirit of Inquiry:** Translate, question, and challenge the status quo of research findings in collaboration with inter-professional healthcare teams to manage increasingly complex, critically ill, and/or multiple clients.	**Spirit of Inquiry:** Evaluate ongoing evidence-based initiatives in collaboration with inter-professional teams to manage increasingly complex, critically ill, and/or multiple clients.

Student Learning Outcomes

Student Learning Outcomes	Behavioral Competencies
Upon successful completion of the course, the student will:	
Human Flourishing: Demonstrate knowledge related to the relationship among various cultural groups and educate clients to reach their maximum potential in various health care settings.	**Human Flourishing:** Recognize the influence cultural practices and ethnicity play in various pathological conditions and identify specific risks associated with these groups.
Nursing Judgment: Predict the normal pathophysiological progression and potential deleterious outcomes associated with various morbidities.	**Nursing Judgment:** 1. Discuss assessment characteristics representative of normal physiological parameters and specific pathological-health deviations. 2. Recognize and interpret symptoms of specific health deviations and adaptive human responses associated with relevant pathophysiological conditions. 3. Recognize the relationship associated with various comorbidities and potential impact on client outcomes.
Professional Identity: Recognize the importance of pathophysiological processes to provide care based on legal, ethical, and practice standards in professional practice.	**Professional Identity:** Demonstrate knowledge of pathophysiological processes as a foundation for nursing practice.
Spirit of Inquiry: Respond to various pathological presentations with an inquisitive and curious demeanor.	**Spirit of Inquiry:** Interpret various pathological processes based on compiled client data.

Textbook

Required:

Norris, T. (2015). Essentials of Pathophysiology. (5th ed.). New York: Lippincott ISBN: 978-1975107192

Digital Format: This text is available in a digital format to rent or purchase through the JC Bookstore.

Please review the cost of your required materials to determine the best option for you to purchase your materials.

Please note, your opt out selection is for your entire semester schedule. You cannot opt out/opt into individual courses. And you must opt out by the due date of your first class, which is the 3rd day after the start of your earliest course.

Learn new textbook program at JC https://www.jccmi.edu/bookstore/textbook-program/

For account billing questions, please contact the Jackson College Cashier at jccashier@jccmi.edu

Student Evaluation Criteria

The grade that the student earns will be determined from the examinations, quizzes, and any other assignments that are part of the course. 78% average required on overall course grade to pass course. The testing component of the course will account for 90% of the course grade. In-class assignments will account for 5% of the course grade. A paper on COVID 19 will account for 5% of the course grade. The student must achieve a 78% average on the testing component of the course before the in-class assignment percentage is added to the course grade. Students must also achieve an overall score of 78% to pass the course.

UNIT EXAMS:	A schedule of theory topics and exams will be listed on JetNet.
Kaplan	One standardized Pathophysiology Exam will be given in NRS 218 (none for NRS 217).
STANDARIZED	**Each question must be remediated for 2 minutes.**
PAPER:	Pathophysiology paper on COVID 19
OTHER ASSIGNMENTS:	Kaplan quizzes, video reflection, case studies.
OTHER:	*See the Nursing Handbook for evaluations behaviors based on the Code of Nursing.

Grading Scale

The total number of points on tests will be cumulative and a percentage computed to figure the final grade. The student must receive a minimum 78% average on the in-class tests before any other points are added to course total. An overall course grade of 78% or higher must be achieved to pass NRS 217 Pathophysiology 1.

The grading scale for the course is as follows:

GPA	GRADE RANGE
4.0	94 -100%
3.5	90 - 93%
3.0	86 - 89%
2.5	82 - 85%
2.0	**78 - 81%**
1.5	74 - 77%
1.0	70 - 73%
0.5	66 - 69%
0.0	< 66%

Each test will be graded utilizing the above Nursing Department grading scale. When calculating final grades if the percentage includes a decimal, 0.5 or more the grade will be rounded up to the next whole number (e.g. 83.5=84). If a decimal grade of 0.4 or less is calculated the grade will be rounded down to the nearest whole number (e.g. 83.4 = 83). If the faculty decides that a test question is not valid, everyone in the course receives one point for that question whether they got the question "right or wrong". (This is not an additional point if the question was scored as being correct. If the questions were answered correct by the student, they will not receive an additional point).

Jackson College Nursing Student Handbook – AAS-N

All AAS-N students are responsible for accessing and reviewing the general policies and procedures section of the current online edition (2021-2022) of the Nursing Student Handbook at the beginning of each course.

- •Attendance Policy
- • Cell Phones
- • Testing – Course Exams
    - o Testing Guidelines for Students
    - o Online Testing Guidelines
    - o Test Make-Up
    - o Dosage Calculation Competency Policy
- • Academic Integrity and Honesty Policy

- Civility

- Uniform Policy

- Simulation Expectations

- Smoking

- Mandatory Health Data/CPR Certification

- Student Health Issues/Latex Allergy

- Exposure Incidence and Diseases

- Accidents (Including Needle Sticks)

Link to Handbook: https://www.jccmi.edu/wp-content/uploads/AAS-N-Nursing-Handbook.pdf

Student Responsibilities: Class Requirements

Attendance

Attendance in class is not required, but it is HIGHLY recommended. ***Students must be present(virtually) on class sessions when tests are scheduled, or they will have deductions to test scores*** – see Testing Make-up Policy. Students are encouraged to log into the course weekly and complete the assignments. Face-to-face meetings will occur at the scheduled time on Wednesdays each week. Lecture content will be delivered through taped PowerPoint presentations. The presentations will be uploaded and ready to view by Monday morning of each week. Students are responsible for downloading and watching the lectures. Students are responsible for all content delivered during the taped lectures and through additional assignments.

Additional Assignments

There will be one case study/assignment per week. The case studies/assignments will be completed and turned in during your scheduled face-to-face time on Wednesdays of each week. You must attend class and complete the case studies during class time to receive credit. **No points will be given for late submissions or for those who do not attend the face-to-face class.**

There will be a Pathophysiology paper on COVID 19.

Course Communications

Course communications will be made through JetNet and the Jackson College email system. All students must utilize their JC email when sending email communications to faculty regarding the course. When sending an email to your faculty the expectation is that you send a professional email with a greeting and information regarding why you are sending an email.

Written Work

Written/typed work should be neatly done using proper grammar, spelling and punctuation, and sentence structure. Written/typed work with three or more spelling errors or with improper sentence structure will be unsatisfactory.

Reading Assignments

Reading assignments (text, assigned articles, handouts, etc.) should be read for understanding before the class for which they are assigned. Class discussions and critical thinking exercises will be based on the student coming prepared to class. Students are encouraged to bring questions to class. Some questions, however, will be best answered following class because of limited class time.

Testing

Testing will be done from content objectives found in course learning guides. A student will be allowed to take a make-up test only 1 time without penalty. Cell phones and apple watches may not be out during testing or while reviewing an exam. If a student is found to have a cell phone out during testing or during test review the student will receive a zero on the test in question.

All students will need to prepare their technology now for vigorous use in the coming weeks. Each student must secure a plan for the regular use of a device with camera capabilities for testing, as this will be the primary source of attendance and participation in the course and getting credit for testing. Cameras will be a requirement for testing throughout the remainder of the online delivery of learning. CNEA accreditation mandates every test to be carried out using video recording technology.

To protect the fairness and integrity of the exams, students will be required to take exams using Respondus Lockdown Browser and Monitor. This is an online test proctoring software that requires a download to your computer. If two programs for lockdown and video capture cannot run at the same time on one device, students will need to record themselves during timed testing on a separate machine in which faculty can monitor them using Big Blue Button. Video review by faculty is a requirement for every online exam given. If students do not have a laptop equipped with camera capabilities, they may use a cell phone while testing to record themselves while using a separate device for online testing. Each video testing event is recorded and saved to a file by faculty members through Big Blue Button, housed on JetNet, and kept as a part of the permeant recorded delivery method of each exam. Training and practice of Respondus technology will be provided in advance of the first exam. A Mac or PC that has a webcam and microphone is required to use Respondus. If you do not have this technology, please contact your instructor right away. Students are expected to complete the Respondus Practice quiz on time. This is to give our IT department time to help troubleshoot issues **before** exam 1 begins. Failure to complete the Respondus quiz on time may result in instructor-initiated drop.

Testing will occur on **Mondays at 1000.** Testing will be on the following dates:

- Monday, 1/17/22- Cells and Cancer

- Monday, 1/24/22- Cardiovascular Part 1

- Monday, 1/31/22- Cardiovascular Part 2

- Monday, 2/7/22- Endocrine

- Monday, 2/14/22- Respiratory/Pulmonary

- Monday, 2/21/22- Digestive

- Monday, 2/28/22- Multisystem Review

Students will not be allowed to review the tests that are in the online course format. Students can make an appointment with the faculty member to review test question concepts, but specific test questions will not be reviewed to maintain test integrity. Students will have one week to review test concepts. If a student has a question or concern regarding the test or a test question a student needs to complete a Test Inquiry Form within one week of the test. Students will not be allowed to complete a Test Inquiry Form or review test concepts after the review timeframe has expired.

Grading Tests

When grading tests, faculty reserves the right to not count questions that they deem are not of good quality. In this situation, all answers will be accepted for the question(s) discarded. No additional point will be given to the student who had the question "right" prior to it being discarded. Calculation and Select-All-That-Apply (SATA) questions are not eligible to be discarded.

SATA Questions

The Moodle testing format awards partial credit for SATA questions. Partial credit will not be awarded for SATA questions. Students must select only the correct responses to earn credit on these questions. When a test is completed on Moodle students need to be aware the posted score is considered a "raw" score. SATA questions will be hand-graded once the test is complete which may result in the test score going down. There will be SATA questions on every test.

Instructional Methods

- Lecture

- PowerPoint

- Discussion

- Assigned readings

- Optional readings/videos

- Case studies

- COVID 19 paper

Available Learning Services

Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the Office of Learning Support Services as soon as possible to ensure that such accommodations are implemented in a timely fashion."

Tutors are sometimes available through Center for Student Success in Bert Walker Hall for Nursing. The Center for Student Success can help students with academic and personal problems. If you feel the need to talk with the faculty, their office hours are available and posted on their office doors. Keeping communication open assists both student and faculty.

Accessibility

Jackson College understands that cultivating a broadly diverse community is crucial to our educational mission and to our foundational commitment to leadership and service. Jackson College is fully committed to ensuring our courses are accessible to everyone including those with disabilities. We are currently working to increase accessibility and usability of our course materials in order to meet or exceed the requirements of Section 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1991 and Web Content Accessibility Guidelines (WCAG) 2.0. For more information about Jackson College's efforts to ensure accessibility please visit the Jackson College accessibility web page.

If you have an accessibility need in any of our classes, please e-mail the Center for Student Success at JCCSS@jccmi.edu or visit the Center for Student Success web page.

Support

At the Center for Student Success (CSS), we are committed to providing all students the opportunity to achieve academic success by providing a variety of support services free of charge to Jackson College students. This includes, but is not limited to, peer and faculty tutoring, mental health referral, temporary assistance with transportation, various workshops/seminars, and the TRIO program.

In addition, the CSS staff is committed to adapting the College's general services to meet the individual needs of otherwise qualified students with disabilities, for the purpose of providing equal access to all programs and facilities.

Oasis Center

During a student's college experience, one might encounter situations that impact their learning environment. When these situations occur, support from the Oasis Center is available to provide short-term assistance. If the situation requires ongoing support, the Oasis Center staff can provide that level of support or will assist the individual in securing an outside agency to provide it.

For more information visit the Jackson College Oasis Center webpage https://www.jccmi.edu/the-oasis-center/

Health Clinic

Jackson College has partnered with Henry Ford Allegiance Health to offer healthcare to Jackson College students and employees. The Jackson College Health Clinic (JCHC) is located on Central Campus in the Justin Whiting Hall, Room 111. The caring and professional staff at the JCHC provides quality healthcare, including annual exams (physicals, program physicals and sports physicals), acute and chronic illness care and preventative health care (It's Your Life).

For more information visit the Jackson College Health Clinic webpage https://www.jccmi.edu/health-clinic/

Dental Clinic

Community members may utilize Jackson College Dental Hygiene Clinic, which offers dental hygiene services while helping students gain experience. Students work under the supervision of license dental hygiene instructor and dentist as they offer preventative services.

For more information visit the Jackson College Dental Clinic webpage https://www.jccmi.edu/dental-hygiene/dental-hygiene-dental-clinic/

Help

Available learning services or opportunities for students seeking help with their course work. May include information about tutors, learning centers, reserved library materials, counseling services.

Academic Advising

Student success navigators serve not only as academic advisors but as a student's academic, financial, and total resource advocate or coach.

Students will have an assigned navigator to meet with for advising and any questions they may have. Navigators will serve as the "go-to" person to help students throughout the college experience.

It is important to know your Student Success Navigator. You may find your Navigator by visiting this website https://www.jccmi.edu/academics/academic-advising/ and click on your pathway. You should also receive an email from your Navigator at the beginning of the semester.

Technical Assistance

For technical assistance, please contact the Jackson College Solution Center. All technical work requests are initiated through the following venues:

- E-mail: jcsolutioncenter@jccmi.edu

- Phone: 517.796.8639

- Walk-in: Atkinson Hall, Room 203

Attendance Policy

In compliance with Federal Title IV funding requirements, as well as college initiatives, instructors will take attendance at each scheduled meeting time. Students will be automatically dropped if, within the first week of class, they do not attend class or do not engage in academic activity of an online class. If a student has not engaged in academic activity over a two-week timeframe, instructors will input a last date of attendance for that student, who will then be administratively withdrawn."

Nursing Progression Policy

See the Nursing Handbook for progression policies. The student must earn a 2.0 grade in Theory to pass the course. Students who withdraw or fail this course cannot progress into third-semester courses including NRS 212 Behavioral Health and NRS 213 Pediatrics. Consult the handbook for current

Point Summary

Test Component: 90% of grade

TEST	# of Points	Earned Points	Possible Points	Test Percentage Earned divided by Possible	Total Points Earned	Total Points Possible
Test 1	50		50			50
Test 2	50		50			100
Test 3	50		50			150
Test 4	50		50			200
Test 5	50		50			250
Test 6	50		50			300
Test 7	50		50			350
Total # of points on tests	350					350
78% must be achieved on in class exams to pass course	Test Percentage	%		Test % divided by total earned by total possible		Multiply test % by 0.9 for 90% total

In-class Assignments: 5% of grade

In-class Assignments	# of points	Earned Points	Possible Points			
Case Study 1	5					
Case Study 2	5					
Case Study 3	5					

Case Study 4	5				
Case Study 5	5				
Case Study 6	5				
Case Study 7	5				
Total # of points on assignments	35		35	Assignment % divided by total earned by total possible		Multiply assignments % by 0.05 for 5% total

Pathophysiology Paper: 5% of grade

Pathophysiology Paper on COVID 19	28		28			5% total

Calendar

MONDAY 1/10/22	**CLASSES BEGIN**
MONDAY 03/07/2022-FRIDAY 03/11/2022	**MID-SEMESTER BREAK-NO CLASSES**
SATURDAY 04/30/2022	**END OF SPRING SEMESTER**

COURSE SYLLABUS ATTESTATION FORM
NRS 217 Pathophysiology 1

___ I have read the complete syllabus, weekly schedule and reviewed all resource materials for NRS 217 including Kaplan remediation requirements, and the Nursing Department Testing Guidelines for Students.

___ I understand I must submit the weekly case studies done in-class by the due dates in order to receive credit.

___ I have reviewed the JC Nursing Handbook Simulation & Social Media Policy as it relates to this course. I will adhere to the guidelines for Responsible Use of Technology at Jackson College at all times while I am a student of the nursing program. **I understand if I violate these policies I may be dismissed from the course/and or/ nursing program.**

___ I understand that all types of electronic devices may not be appropriate at certain times within this course and that it is **not permissible** to take photos of any course PowerPoints, or any other form of lecture/online materials without expressed permission from my instructor. Failure to abide by this policy may result in dismissal from the course. No exceptions!!

___ All my questions related to course resources have been answered at this time. I understand the information contained within the resources checked and will adhere to any additional course, JC Nursing Department and, or College policies not mentioned in this document that may apply to my status as a student in NRS 217.

 Signature: _____Date:_____

[Please clink on the following link by **January 14th, 2022** for electronic submission of the syllabus attestation] https://forms.office.com/r/jTKmuxC3kH

Reviewed/Revised; C. Miller: 1/2022