



MIDDLE TENNESSEE SCHOOL OF ANESTHESIA
NDREG 600: Regional Anesthesia Foundations Course Spring 2024

COURSE NAME AND NUMBER: NDREG 600: Regional Anesthesia Foundations Course

COURSE FACULTY:

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Response time to email and phone messages: Every attempt will be made to respond to your email, Teams message, or phone message within 24 hours. Please note that messages left after noon on Friday may not be retrieved until Monday morning.

Office Hours at MTSA: M–Th 8 am – 6 pm.

Please contact course faculty to schedule an appointment.

COURSE DESCRIPTION:

The Regional Anesthesia Foundations Class is a comprehensive 15-week post-graduate course designed for CRNAs seeking to broaden their scope of practice by incorporating regional anesthesia. This course covers a wide variety of regional anesthesia related topics, including ultrasound principles, neuromuscular functional assessment, local anesthetic dosing, peripheral nerve blocks commonly used in the perioperative management of patients, and postoperative considerations. It combines online didactic lectures and interactive synchronous events to ensure a thorough learning experience. The course culminates in a hands-on cadaveric workshop, providing a practical application to reinforce your understanding of anatomy, physiology, and pharmacology specific to regional anesthesia.

COURSE CREDIT: 3 credit hours

REQUIRED TEXTS:

1. Hadzic A. *Hadzic's Peripheral Nerve Blocks and Anatomy for Ultrasound-Guided Regional Anesthesia*. 3rd ed. New York NY: McGraw-Hill Education; 2022. ISBN 10:978-0071717595. A FREE Electronic version available through Access Anesthesiology in MTSA's Library.

2. Elisha S, Heiner, J, Nagelhout JJ. *Nurse Anesthesia*. 7th ed. St. Louis Mo: Elsevier/Saunders; 2022.
<https://www.clinicalkey.com/nursing/dura/browse/bookChapter/3-s2.0-C20100688894>. A FREE Electronic version available through Access Anesthesiology in MTSA's Library.
3. Flood P Rathmell JP Urman RD. *Stoelting's Pharmacology & Physiology in Anesthetic Practice*. Sixth ed. Philadelphia: Wolters Kluwer; 2022.
4. Cousins MJ Bridenbaugh PO Ovid Technologies Inc. *Cousins and Bridenbaugh's Neural Blockade in Clinical Anesthesia and Pain Medicine*. 4th ed. Philadelphia: Lippincott Williams & Wilkins; 2009. A FREE Electronic version available through Access Anesthesiology in MTSA's Library.

SUGGESTED TEXTS OR ADDITIONAL SUGGESTED READING MATERIAL:

1. Sinatra RS. *Acute Pain Management*. Cambridge: Cambridge University Press; 2009. <https://doi.org/10.1017/CBO9780511576706>. ISBN-13978-0-521-87491-5. 2009. Pdf
of book on Brightspace.
2. Netter FH. *Netter Atlas of Human Anatomy: A Systems Approach*. Eighth edition. Standard ed. Philadelphia PA: Elsevier; 2023.
3. Farag E Mounir-Soliman L Brown DL. *Brown's Atlas of Regional Anesthesia*. Sixth ed. Philadelphia Pennsylvania: Elsevier; 2022.
4. Websites: www.nysora.com, www.usra.ca, www.neuraxiom.com, www.vaulttrasound.com
5. iTunes apps: ASRA Coags, Complete Anatomy '23, Regional Anesthesia Reference

COURSE OBJECTIVES:

1. State the indications and contraindications for common regional anesthesia procedures. (DSLO 14, 23, 35, 44, 45, 46)
2. State the advantages of ultrasound-guided regional anesthesia techniques over traditional landmark approaches. (DSLO 14, 23, 35, 44, 45, 46, 49)
3. Conduct a functional neurological assessment while explaining neurotransmitters and receptors associated with pain. (DSLO 14, 23, 26, 35, 44, 45, 46)
4. Compare and contrast spinal and epidural anesthesia; list the indications, contraindications, pharmacologic considerations, and complications of each. (DSLO 14, 23, 33, 35, 44, 45, 46, 49)
5. Discuss the various approaches for procedures involving the brachial plexus, lumbar and sacral plexi, and truncal regions to include pharmacologic dosing and the management of complications. (DSLO 14, 23, 33, 35, 44, 45, 46, 49)
6. Describe the indications and techniques for intravenous regional anesthesia, to include pharmacologic dosing and the management of complications. (DSLO 14, 23, 33, 35, 44, 45, 46, 49)
7. Compare and contrast chronic and acute pain and the management implications of each. (DSLO 14, 23, 33, 35, 44, 45, 46)

EVALUATION AND GRADING SYSTEM:

As a graduate student, one owns the major responsibility for learning. Course faculty facilitates academic and professional development by encouraging independent thought and action. A quest for knowledge is the motivation by which students advance their scholarly development. The faculty expects that students will take an active role in their learning and be responsible for all learning. Students are expected to successfully complete all end of module assessments and/or evaluations.

LEARNING ACTIVITIES:

The format for the course is hybrid, with online lectures and assignments combined with live synchronous events. Learning assessments are administered throughout the course to demonstrate a mastery of the objectives. A grade of “C” is considered a passing grade for the course. Although the coursework is designed to be self-paced, there are required synchronous activities arranged by the course instructor.

Teaching Methods

- Voice over PowerPoint lectures
- Synchronous events via TEAMS
- End-of-module examinations
- Essentials of USGRA Cadaveric Workshop

GRADING SYSTEM:

End-of-Module Exams	45%
Synchronous Events	15%
Written Assignments	15%
Cadaveric Workshop	25%
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	100%

End-of- Module Examinations (45%)

The course contains end-of-module exams for students to demonstrate content mastery. To receive full credit, exams must be completed prior to the corresponding synchronous event. **One point will be deducted from the exam grade for each day it is late.**

Synchronous Event Attendance (15%)

At the end of each module, students are expected to attend and participate in a live synchronous event with course faculty. If a student is unable to attend an online event, they must notify the course faculty at least 24 hours prior. To receive credit for a missed synchronous event, the student must watch the recording of the event and submit a one-page paper relating the topic to their current clinical practice, written in AMA format, to include references.

Written Assignments (15%)

Students will submit written case presentations prior to the end of module synchronous event detailing the perioperative pain management plan of a patient related to the module content. Students are expected to discuss their plans at the end of module synchronous events. **Presentations submitted after the start of the synchronous event will receive a grade no higher than 80%. Failure to complete and submit all assignments will result in a grade of incomplete for the course.**

Cadaveric Workshop (25%)

Students are required to attend an Essentials of USGRA Cadaveric Workshop at the end of the course. During the cadaveric workshop, students will complete a competency-based evaluation to demonstrate proficiency in safe ultrasound-guided regional anesthesia techniques.

COMMUNITY COURSE GRADING POLICY (5.6.102)

Students can view their final grades for each semester anytime by visiting the transcript section of the CAMS Student Portal <https://student.mtsa.edu/>.

The grading scale is based on the following 4.0 grading system:

A	90-100%	(4.0 Quality Points)
B	80-89%	(3.0 Quality Points)
C	70-79%	(2.0 Quality Points)
F	Below 70%	(0.0 – Failing)
W	Withdrew	See Grade of Withdrew below
WF	Withdrew Failing	See Grade of Withdrew Failing below
T	Terminated	See Terminated below

(There is no grade of “D” in the Grading Scale)

Withdrawing from a Course

Students may drop a course within the first 5 days of the semester with no grade.

Grade of Withdrew (W)

Students wishing to withdraw from the course after the first 5 days will either receive a grade of “W” or “WF.” To receive a W grade, a student must drop the course within the first 60% of the semester. A “W” grade does not impact a student’s GPA.

Grade of Withdrew Failing (WF)

Students wishing to withdraw from the course after the deadline to withdraw with a “W” grade (see above) will receive a grade of “WF.” A WF grade is calculated into a student’s GPA as a failing grade (F).

Terminated (T)

An administratively terminated student is issued a final grade of "T" for all courses in which he/she is currently enrolled, and the termination is noted on the student's transcript.

GRADE APPEAL:

Please refer to the Acute Surgical Pain Management Fellowship Student Handbook for the Grade Appeal Policy. <https://mtsa-aspmf.cleancatalog.net/student-appeals>

COMMUNITY COURSE REFUND POLICY (5.6.101)

Any student who wishes to withdraw from a community course must notify the instructor in writing of this action.

Refund Policy

MTSA will permit any student to cancel their enrollment agreement in a community course within five MTSA business days of the enrollment day. Should a cancellation occur, MTSA will refund 100% of the tuition payment that was made by the student, minus the non-refundable portion (30%) submitted to hold the student's position in the class. Students who have been given a medical withdrawal are assessed and adjusted no differently than other withdrawals.

Pro-Rata Refund

If a student withdraws or is terminated from the program after the period allowed for cancellation of the enrollment agreement and has completed 60% or less of the period of attendance (semester), the student is entitled to a partial prorated refund. MTSA will calculate whether a tuition refund is due and if so, remit a refund within 45 days following the student's withdrawal or termination. The pro-rata percentage is based on days of attendance within the period of attendance. Please contact the Business Office (615-732-7852) for more information.

Determination of the Withdrawal Date

The student's withdrawal date is the date the student submits the signed withdrawal form to the Registrar's Office.

MTSA Internal Withdrawal Procedures:

Notify in writing the instructor who will in turn notify the Program Director and Registrar of your intent to withdraw. Schedule an appointment with the Executive Vice President if requested. The Registrar sends the student the withdrawal form to complete and sign electronically. After the student signs, the completed form is sent to the instructor for signature. The withdrawal process will be initiated upon receipt of the completed withdrawal form.

GRIEVANCE PROCESS:

Please refer to the link below from the Acute Surgical Pain Management Fellowship Student Handbook for the Student Complaint/Grievance Policy.

<https://mtsa-aspmf.cleancatalog.net/student-complaintgrievance-policy>

PARTICIPATION:

Although the online coursework is designed to be self-paced within the module structure, there are required live synchronous events arranged by the course faculty. Students are required to attend and participate in all scheduled events. If a student is unable to attend an

event, they must watch the recording and submit a one-page paper relating the topic to their current clinical practice, written in AMA format, to include references.

LATE ASSIGNMENTS:

Points deducted for the late submission of assignments is at the discretion of the instructor and is detailed in each module outline posted into the BrightSpace course.

COURSE MODIFICATIONS:

Course content and requirements are subject to change at the discretion of the course coordinator.

PLAGIARISM, CHEATING, OR LYING INVOLVING ANY CLINICAL, ACADEMIC, OR SCHOOL ENDEAVOR:

Plagiarism, which is defined as “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,” is a form of cheating, and is subject to disciplinary action including termination.

Any student found: cheating on any test, exam, quiz, or assignment; who has falsified clinical documents, such as clinical evaluations or any other documentation; falsified signatures; or who has plagiarized any assignment, will be suspended from the course with the recommendation for immediate termination.

HONOR CODE:

As a student at Middle Tennessee School of Anesthesia, I will incorporate the principles of truth, honor, integrity, and virtue in all that I do while enrolled. I acknowledge the Honor Code as vital in fostering an environment of trust, order, and unity within the school. I accept the sacred trust placed in me to continue this heritage of honor in my efforts to become a competent nurse anesthetist. I freely pledge to abide by the MTSA Standards of Conduct and this Honor Code in all my conduct. I understand that a violation of this Honor Pledge will result in disciplinary action up to and including dismissal from the program.

AMERICANS WITH DISABILITIES STATEMENT:

Students with disabilities, who are protected by the Americans with Disabilities Act of 1990 and require special accommodations, should contact their instructor prior to course start date. The school will make reasonable accommodation whenever necessary for all applicants with disabilities, provided that the individual is otherwise qualified to safely perform the duties and assignments connected with the academic and clinical requirements of the curriculum. (*See handbook for more detailed requirements for completion of clinical/coursework*). Reasonable accommodation will be made to assure student success and completion of coursework only with notification of need prior to course start date.