

Mountain Plains Health Consortium

EMT-Paramedic Program Syllabus

2009-2010

Textbooks, Workbooks, and Software:

Brady Anatomy and Physiology for Emergency Care, 2nd ed.
Brady Workbook for Anatomy and Physiology for Emergency Care, 2nd ed.
Brady Paramedic Care, Principles and Practice, 3rd ed.
 Volume 1 – Introduction to Advanced Prehospital Care
Brady Paramedic Care, Principles and Practice, 3rd ed.
 Volume 2 - Patient Assessment
Brady Paramedic Care, Principles and Practice, 3rd ed.
 Volume 3 - Medical Emergencies
Mad Scientist Software – Cardiac Arrest and Code team
ACLS Quick Review Study Guide, 3rd edition
Advanced Medical Life Support, 3rd edition
12-Lead ECG for Acute and Critical Care Providers
Brady Paramedic Care, Principles and Practice, 3rd ed.
 Volume 4 - Trauma Emergencies
PreHospital Trauma Life Support, 6th Edition
Brady Paramedic Care, Principles and Practice, 3rd ed.
 Volume 5 - Special Considerations/Operations
AHA Textbook of Pediatric Advanced Life Support
Pediatric Education for Prehospital Professionals, 2nd ed.

<u>Date and Time</u>	<u>Topic</u>	<u>Instructor</u>
All times Mountain Zone		
Thursday, August 27, 2009		
0800-1000	Rapid City Clinical Orientation	Johnson
1000-1100	Class Opening	Hayes
1100-1200	Orientation	Richmond/Johnson
1200-1300	Lunch	
1300-1700	Computer Orientation	Richmond
Friday, September 4, 2009		
Anatomy and Physiology		
Due by 2:00 PM	Medical Terminology	Richmond
	Introduction to A & P	Richmond
	The Chemical Level of Organization	Richmond
	Cell Structure and Function	Richmond

Friday, September 11, 2009

Due by 2:00 PM

The Tissue Level of Organization
The Integumentary System
The Skeletal System part 1

Richmond
Richmond
Richmond

Friday, September 18, 2009

Due by 2:00 PM

The Skeletal System part 2
The Muscular System

Richmond
Richmond

Friday, September 25, 2009

Due by 2:00 PM

The Nervous System
The General and Special Senses

Richmond
Richmond

Friday, October 2, 2009

Due by 2:00 PM

The Endocrine System
The Cardiovascular System: Blood
The Cardiovascular System: The Heart

Richmond
Richmond
Richmond

Friday, October 9, 2009

Due by 2:00 PM

The Cardiovascular System: Blood Vessels and Circulation
The Lymphatic System and Immunity

Richmond
Richmond

Friday, October 16, 2009

Due by 2:00 PM

The Respiratory System
The Digestive System

Richmond
Richmond

Friday, October 23, 2009

Due by 2:00 PM

Nutrition, and Metabolism
The Urinary System

Richmond
Richmond

Friday, October 30, 2009

Due by 2:00 PM

The Reproductive System
Development and Inheritance

Richmond
Richmond

Friday, November 6, 2009

Due by 2:00 PM

Preparatory

Introduction to Advanced Prehospital Care
The Well-Being of the Paramedic
EMS Systems
Roles and Responsibilities of the

Richmond
Richmond
Richmond
Richmond

Paramedic

**Friday, November 13,
2009**

Due by 2:00 PM

Illness and Injury Prevention	Richmond
Medical/Legal Aspects of Advanced Prehospital Care	Richmond
Ethics in Advanced Prehospital Care	Richmond

**Friday, November 20,
2009**

Due by 2:00 PM

General Principles of Pathophysiology	Richmond
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November 26-27, 2008

Thanksgiving Vacation

Friday, December 4, 2009

Due by 2:00 PM

General Principles of Pharmacology part 1	Richmond
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**Friday, December 11,
2009**

Due by 2:00 PM

General Principles of Pharmacology part 2	Richmond
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**Saturday, December 12,
2009**

Human Cadaver Lab in Vermillion, SD	Richmond/Johnson
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**Friday, December 18,
2009**

Due by 2:00 PM

IV Access and Medication Administration	Richmond
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December 22, 2009 – January 4, 2010 Christmas Vacation

January 5, 2010

Lab time must now be scheduled at
least 1 day per week through the
remainder of the course. Labs will be
available to schedule on FISDAP.

Friday, January 8, 2010

Due by 2:00 PM

Therapeutic Communications	Richmond
Life Span Development	Richmond
Airway Management and Ventilation part 1	Richmond

Friday, January 15, 2010 Due by 2:00 PM	Airway Management and Ventilation part 2 Research in EMS	Richmond Richmond
Friday, January 22, 2010 Due by 2:00 PM	Assessment History Taking Physical Exam Techniques	Richmond Richmond
Friday, January 29, 2010 Due by 2:00 PM	Patient Assessment in the Field Clinical Decision Making Communications Documentation	Richmond Richmond Richmond Richmond
Friday, February 5, 2010 Due by 2:00 PM	Cardiology Pulmonology Cardiology part 1	Richmond Richmond
Friday, February 12, 2010 Due by 2:00 PM	Cardiology part 2	Richmond
Friday, February 19, 2010 Due by 2:00 PM	Cardiology part 3	Richmond
Friday, February 26, 2010 Due by 2:00 PM	Cardiology part 4	Richmond
Friday, March 5, 2010 Due by 2:00 PM	Cardiology part 5	Richmond
Saturday, March 6, 2010 0800-1700	ACLS Provider	Larson, Johnson, Richmond
Sunday, March 7, 2010 0800-1700	ACLS Provider	Larson, Johnson, Richmond
Friday, March 12, 2010 Due by 2:00 PM	Medical Neurology Endocrinology	Richmond Richmond
Friday, March 19, 2010 Due by 2:00 PM	Allergies and Anaphylaxis Gastroenterology Urology and Nephrology	Richmond Richmond Richmond

Friday, March 26, 2010 Due by 2:00 PM	Toxicology Hematology	Richmond Richmond
Friday, April 2, 2010 Due by 2:00 PM	Environmental Conditions Infectious Diseases part 1	Richmond Richmond
Friday, April 9, 2010 Due by 2:00 PM	Infectious Diseases part 2 Psychiatric and Behavioral Disorders Gynecology part 1	Richmond Richmond Richmond
Friday, April 16, 2010 Due by 2:00 PM	Gynecology part 2 Obstetrics	Richmond Richmond
Saturday, April 17, 2010 0800-1700	AMLS Provider	MPHC Faculty
Sunday, April 18, 2010 0800-1700	AMLS Provider	MPHC Faculty
Friday, April 23, 2010 Due by 2:00 PM	Special Considerations/Operations – Part 1 Neonatology Pediatrics part 1	Richmond Richmond
Friday, April 30, 2010 Due by 2:00 PM	Pediatrics part 2	Richmond
Friday, May 7, 2010 Due by 2:00 PM	Pediatrics part 3	Richmond
Saturday, May 8, 2010 0800-1700	PALS/PEPP/EPC Provider	MPHC Faculty
Saturday, May 9, 2010 0800-1700	PALS/PEPP/EPC Provider	MPHC Faculty
Friday, May 14, 2010 Due by 2:00 PM	Trauma Trauma and Trauma Systems Blunt Trauma Penetrating Trauma	Richmond Richmond Richmond

	Hemorrhage and Shock	Richmond
Friday, May 21, 2010 Due by 2:00 PM	Soft Tissue Trauma Burns	Richmond Richmond
Friday, May 28, 2010 Due by 2:00 PM	Musculoskeletal Trauma Head and Face Trauma	Richmond Richmond
Friday, June 4, 2010 Due by 2:00 PM	Spinal Trauma Thoracic Trauma	Richmond Richmond
Friday, June 11, 2010 Due by 2:00 PM	Abdominal Trauma Shock Trauma Resuscitation	Richmond Richmond
Saturday, June 12, 2010- 0800-1700	PHTLS Provider	MPHC Faculty
Sunday, June 13, 2010 0800-1700	PHTLS Provider	MPHC Faculty
Friday, June 18, 2010 Due by 2:00 PM	Special Considerations/Operations – Part 2 Geriatrics Abuse and Assault	Richmond Richmond
Friday, June 25, 2010 Due by 2:00 PM	The Challenged Patient Acute Interventions in Chronic Care Patients Assessment Based Management	Richmond Richmond Richmond
Monday, July 5, 2010	Holiday	
Friday, July 9, 2010 Due by 2:00 PM	Ambulance Operations Medical Incident Management	Richmond Richmond
Friday, July 16, 2010 Due by 2:00 PM	Rescue Awareness and Operations Haz-Mat Incidents	Richmond Richmond

Friday, July 23, 2010

Due by 2:00 PM

End of didactic material

Crime Scene Awareness

Rural EMS

Responding to Terrorist Acts

Richmond

Richmond

Richmond

Summer Break August 1 – 8 (Rally Week)**Tuesday, August 24, 2010**

0800-1700

National Registry Skills Practice

MPHC Faculty

Saturday, August 28, 2010

0800-1700

National Registry Skills Practice

MPHC Faculty

Tuesday, August 31, 2010

0800-1700

Final Practical Exam

MPHC Faculty

Saturday, September 4, 2010

0800-1700

Final Written Exam

Richmond

Friday, October 22, 2010

Due by 2:00 PM

Clinical Completion Deadline

Time and Location TBA**National Registry Exam****CLINICAL REQUIREMENTS**

Clinical time has been arranged at the Black Hills VA Hospital at Ft. Meade and Hot Springs, SD, the Sioux San PHS hospital in Rapid City, SD, Rapid City Regional Hospital, the PHS hospital at Rosebud, SD, the PHS hospital at Pine Ridge, SD, Mobridge Hospital, and Cuyuna Regional Medical Center, Crosby, MN. Field internship time has been arranged at The Rapid City Department of Fire and Emergency Services, Spearfish Ambulance Service, Hot Springs EMS, Muskogee County EMS, Muskogee, OK, Mobridge Ambulance Service, and Cuyuna Medical Center EMS, Crosby, MN.

Additional classroom, skills lab, clinical, or field internship time may be arranged on an individual student-by-student basis as needed during the course. These hours represent the **MINIMUM** time that will be spent on each subject area. For this reason the dates for course completion and National Registry testing are subject to some change.

Location**Minimum Hours** *Date Opens*

Emergency Department

156

3/8/10

Intensive Care Unit	24	3/8/10
Operating Room	40	2/22/10
IV Team (or Lab)	8	1/11/10
Pediatric Unit or ER	24	5/10/10
Labor/Delivery/ Newborn Nursery	36	5/10/10
Behavioral Unit or ER	8	4/19/10
<u>Minimum Total Hospital Clinical Time</u>	296	
Paramedic Ambulance Field Internship	248	7/24/10
<u>Minimum Total Clinical And Field Internship Time</u>	544	

During the available clinical and field internship time, the student will be responsible for demonstrating proficiency to the preceptor in the following areas:

PSYCHOMOTOR SKILLS

The student must demonstrate the ability to safely administer medications.

The student should safely, and while performing all steps of each procedure, properly administer medications at least 15 times to live patients.

The student must demonstrate the ability to safely perform endotracheal intubation.

The student should safely, and while performing all steps of each procedure, successfully intubate at least 10 live patients.

The student must demonstrate the ability to safely gain venous access in all age group patients.

The student should safely, and while performing all steps of each procedure, successfully access the venous circulation at least 25 times on live patients of various age groups.

The student must demonstrate the ability to effectively ventilate unintubated patients of all age groups.

The student should effectively, and while performing all steps of each procedure, ventilate at least 20 live patients of various age groups.

AGES

The student must demonstrate the ability to perform a comprehensive assessment on pediatric patients.

The student should perform a comprehensive patient assessment on at least 30 (including newborns, infants, toddlers, and school age) pediatric patients.

The student must demonstrate the ability to perform a compressive assessment on adult patients.

The student should perform a comprehensive patient assessment on at least 50 adult patients.

The student must demonstrate the ability to perform a comprehensive assessment on geriatric patients.

The student should perform a comprehensive patient assessment on at least 30 geriatric patients.

PATHOLOGIES

The student must demonstrate the ability to perform a comprehensive assessment on obstetric patients.

The student should perform a comprehensive patient assessment on at least 10 obstetric patients.

The student must demonstrate the ability to perform a comprehensive assessment on trauma patients.

The student should perform a comprehensive patient assessment on at least 40 trauma patients.

The student must demonstrate the ability to perform a comprehensive assessment on psychiatric patients.

The student should perform a comprehensive patient assessment on at least 20 psychiatric patients.

COMPLAINTS

The student must demonstrate the ability to perform a comprehensive assessment, formulate and implement a treatment plan for patients with chest pain.

The student should perform a comprehensive patient assessment, formulate and implement a treatment plan on at least 30 patients with chest pain.

The student must demonstrate the ability to perform a comprehensive assessment, formulate and implement a treatment plan for patients with dyspnea/respiratory distress.

The student should perform a comprehensive patient assessment, formulate and implement a treatment plan on at least 20 adult patients with dyspnea/respiratory distress.

The student should perform a comprehensive patient assessment, formulate and implement a treatment plan on at least 8 pediatric patients (including infants, toddlers, and school age) with dyspnea/respiratory distress.

The student must demonstrate the ability to perform a comprehensive assessment, formulate and implement a treatment plan for patients with syncope.

The student should perform a comprehensive patient assessment, formulate and implement a treatment plan on at least 10 patients with syncope.

The student must demonstrate the ability to perform a comprehensive assessment, formulate and implement a treatment plan for patients with abdominal complaints.

The student should perform a comprehensive patient assessment, formulate and implement a treatment plan on at least 20 patients with abdominal complaints (for example: abdominal pain, nausea/vomiting, GI bleeding, gynecological complaint, etc.)

The student must demonstrate the ability to perform a comprehensive assessment, formulate and implement a treatment plan for patients with altered mental status.

The student should perform a comprehensive patient assessment, formulate and implement a treatment plan on at least 20 patients with altered mental status.

TEAM LEADER SKILLS

The student must demonstrate the ability to serve as a team leader in variety of prehospital emergency situations.

The student should serve as the team leader for at least 50 prehospital emergency responses.