Elective Credits

01-Diving and Hyperbaric Medicine
01-005  Introduction to Hyperbaric Oxygen
01-006  Marine Envenomations
01-007  Introduction to Hyperbaric Chamber Operations
01-008  Duties and Roles of the Dive Medical Officer
01-009  Evaluating the Fitness to Dive
01-011  Altitude and Diving
01-012  Diving Accident Management
01-013  Long Term Consequences of Diving
01-014  Principles of Recompression Therapy
01-015  Diving and Special Populations
01-016  Oxygen Toxicity
01-017  Case Scenarios in Diving Accidents
01-018  Case Scenarios in Recompression Therapy
01-019  Introduction to Mixed-Gas, Closed
01-020  Closed Circuit Diving
01-021  Open Water Rescue Techniques
01-022  Diving Ophthalmology
01-023  Women and Diving
01-024  Shark Attacks
01-025  Nitrogen Narcosis
01-026  Decompression Illness
01-027  Breath-Hold Diving
01-028  Dive Equipment & Management
01-029  Inert Gas Exchange
01-030  History of Diving
01-031  Mechanisms and Risks of Decompression
01-032  Pathophysiology of Decompression Illness
01-033  Treatment of Decompression Illness
01-034  Inert Gas Narcosis
01-035  High Pressure Nervous System Syndrome
01-036  Cold Water Diving
01-037  Human Performance Underwater
01-038  Ear and Sinus Problems in Diving
01-039  Neurologic Disorders and Diving
01-040  Diabetes and Diving
01-041  Understanding the Dive Tables
01-042  Underwater Navigation
01-043  Diving Thermal Extremes

02-Tropical and Travel Medicine
02-003  Viral Illness while Traveling
02-006  Managing a Travel Medicine Clinic
02-011  Group Travel Exercises
02-013  Children & Elderly in the Wilderness
| 02-015 | Surviving Hostage Situations |
| 02-016 | Rabies |
| 02-018 | Plague |
| 02-019 | Viral Hepatitis |
| 02-020 | Recognition and Management of Dengue Fever |
| 02-021 | The Immunocompromised Traveler |
| 02-022 | Air Travel Medicine |
| 02-024 | Lyme Disease |
| 02-025 | Advice for Travelers with Heart and Lung Problems |
| 02-026 | Resources for Pre-travel Preparation |
| 02-027 | Special Considerations of Long-term Travel and the Expatriate |
| 02-031 | Hanta Virus |
| 02-032 | Leptospirosis |
| 02-036 | Special Medical Considerations in African Travel |
| 02-037 | Special Medical Considerations in Central American Travel |
| 02-038 | Special Medical Considerations in South American Travel |
| 02-039 | Special Medical Considerations in South East Asian Travel |
| 02-040 | Special Medical Considerations in South West Asian Travel |
| 02-041 | Special Medical Considerations in Central Asian Travel |
| 02-042 | Special Medical Considerations in European Travel |
| 02-043 | Case Studies in Diarrhea in Travelers |
| 02-044 | Case Studies in Dermatology |
| 02-045 | Case Studies in Fever in Travelers |
| 02-046 | Case Studies in Malaria in Travelers |
| 02-047 | Case studies and Pre-travel advice for Women |
| 02-048 | Case Studies in Immunizations |
| 02-050 | Water-borne Parasitic Infections |
| 02-052 | The Interpersonal Features of Group Travel |
| 02-053 | Ebola Virus |
| 02-054 | Infectious Disease in Adventure Travel |
| 02-055 | Persistent Diarrhea after Travel |
| 02-056 | Pathogens in Adventure Travel |
| 02-057 | HIV and Adventure Travel |
| 02-058 | Tuberculosis and Adventure Travel |
| 02-059 | Medical Considerations of Air Travel |
| 02-060 | Cruise Ship Medicine |
| 02-061 | Chagas Disease |
| 02-062 | Schistosomiasis |
| 02-063 | Hemorrhagic Fever |
| 02-064 | Water-borne Parasitic Infections |
| 02-065 | Emerging Infections |
| 02-066 | The Interpersonal Features of Group Travel |
| 02-067 | Food Inspection and Preparation |
| 02-068 | Pediatric Wilderness Medicine |
| 02-069 | Cholera |
03-High Altitude and Mountaineering Medicine
03-003 Altitude Sickness and Miscellaneous Disorders
03-005 Altitude Considerations in the General Traveler
03-006 Exercise at High Altitude
03-008 High Altitude Pulmonary Edema
03-009 High Altitude Cerebral Edema
03-010 The Eye at High Altitude
03-011 Pregnancy at High Altitude
03-012 Nutrition at High Altitude
03-013 Mountain Medicine in Extreme Environments
03-014 Women and High Altitude Adventure Travel
03-015 Children and High Altitude Adventure Travel
03-016 Drug Abuse in High Altitude Climbing
03-017 Acclimatization
03-018 High Altitude Neurologic Disorders
03-019 Gamow Bag
03-020 Avalanche Rescue
03-021 Critical Incident Management
03-022 High Altitude Pharmacology
03-023 Injuries from Climbing
03-024 Cognitive Impairment in High-Risk Wilderness Settings
03-025 Overview of Avalanche

04-Expedition Medicine
04-003 Medical Kits for Expeditions
04-004 Medicine at the Poles
04-005 Psychological Issues in Adventure Travel

05-Survival, Field Craft and Equipment
05-002 Extreme Weather
05-005 Leave No Trace Camping/Hiking
05-007 Backpacking Skills
05-011 Survival Shelters
05-012 Survival Signaling
05-014 Survival Leadership
05-016 All purpose Ropes and Knots
05-017 Surviving in the Desert
05-018 Knife & Tool Selection for Travel in the Wilderness
05-019 Celestial Navigation
05-020 Plant Identification & Collection
05-021 Surviving at the Poles
05-022 Surviving at Sea
05-023 Surviving in the Jungle
05-024 Wilderness Survival for Kids
05-025 GPS Navigation
05-Survival, Field Craft and Equipment - continued
05-027  Marine Medical Kit
05-028  Survival in Extreme Environments
05-029  General Gear Selection - First Aid Kits, Packing and Outdoor Equipment
05-030  Fire Safety for Wildlands
05-031  Portable Ultrasound in Wilderness Medicine
05-032  The Dive Medical Officer Medical Kit
05-033  Medical Kits for Desert Travel
05-034  Cold Weather Clothing Selection
05-035  Medical Aspects of Flooding
05-036  Clothing for Desert Travel
05-037  Maritime Communications and Emergencies

06-Safety, Rescue and Evacuation
06-002  Avalanche Rescue
06-003  Critical Incident Management
06-004  Critical Incident Debriefing and Psychology
06-005  Fire-Ground Rescue Operations
06-006  White Water Injuries and Rescue
06-007  Introduction to High Angle Rescue Operations
06-009  Transporting the Dead
06-010  Accidents and Rescue Operations in Mountaineering
06-011  Wilderness Rescue for Backcountry Travelers
06-012  Forensic Search and Rescue
06-013  Improvised Rescue Techniques
06-014  Maritime Medicine
06-015  Telemedicine in Extreme Environments
06-016  Post Traumatic Stress Disorder in Wilderness
06-017  Helicopter Rescue Operations
06-018  Snowmobile Rescue Techniques
06-019  Search and Rescue at Sea
06-020  Extended Rescues in the Wilderness
06-021  Roles of Medical Care Providers in Wilderness Medicine
06-022  Accident Prevention for the Wilderness Traveler
06-023  Decision Making and Safety in Wilderness Backcountry Travel

07-Sports Medicine and Physiology
07-003  Physiology of Heat Exchange
07-005  Injuries from Water-related Sports
07-006  Injuries from Climbing
07-007  Injuries from Skiing and Snow Boarding
07-008  Injuries from Mountain-Biking
07-009  Cognitive Impairment in High-Risk Wilderness Settings
07-011  Training for Wilderness Adventures
07-012  Medical and Safety Aspects of Backcountry Skiing and Snowboarding
07-013  Injuries from Surfing and Windsurfing
07-014  Ocean Paddling Related Injuries
**07-Sports Medicine and Physiology – continued**
- 07-015 Nutrition and Hydration for Athletes in Extreme Environments
- 07-016 Epidemiology of Ultra-Endurance Events
- 07-017 Exercise-Associated Hyponatremia
- 07-018 Overview of Sports Medicine

**08-Preventive Medicine, Field Sanitation & Hygiene**
- 08-003 Field Latrines
- 08-004 Food Inspection and Preparation

**09-General Environmental Medicine**
- 09-008 Overview of Envenomation
- 09-015 Miscellaneous Insect Bites and Stings
- 09-016 Envenomation by Arachnids
- 09-017 Killer Bees
- 09-018 Fire Ants
- 09-021 Envenomation by Snakes
- 09-024 Special Heat Problems in Urban Settings
- 09-026 Jungle Medicine
- 09-028 Overview of Avalanche
- 09-030 Health Maintenance at Sea
- 09-032 Hypothermia and Cold Water Immersion
- 09-033 Overview of Heat and Solar Injuries
- 09-034 Cold Injuries in Children
- 09-035 Antivenins and Hospital Management of Envenomations
- 09-036 Cold Physiology
- 09-037 Suffocation in Powder Snow
- 09-038 Overview of Medicine at Sea
- 09-039 Seasickness

**10-Improvised and Alternative Medicine**
- 10-003 Overview of Primitive Medicine
- 10-004 Alternative Medical Strategies and the Wilderness Traveler
- 10-005 Medicinal Plants
- 10-006 Clinical Hypnosis in the Wilderness

**11-Disaster and Humanitarian Assistance**
- 11-002 Refugee Planning and Management
- 11-004 Chemical Warfare Agents
- 11-005 Management of Radiologic Incidents and Casualties
- 11-006 National and International Relief Organizations
- 11-007 National Disaster Management System
- 11-008 Camp Construction for Large Groups
- 11-009 Psycho-social Responses to Disaster
- 11-010 Travel Medicine for Volunteer Physicians in Developing Countries
- 11-011 Fundamentals of Outbreak Investigation
- 11-012 Natural Disaster Volunteering
11-Disaster and Humanitarian Assistance - continued
11-014  Mass Casualty Situations
11-015  Wilderness Emergencies and Group Decisions
11-018  Tactical Medical Support of Law Enforcement
11-019  Lessons Learned in Recent Disaster Response
11-020  Skills Needed in Disaster Scenarios
11-021  Personal Safety and Team Security
11-023  Media Coverage of Humanitarian Emergencies
11-024  Ethics of Disaster
11-025  Cultural Awareness for Volunteers
11-026  Critical Care in Austere Environments
11-027  NGO Coordination and Logistics
11-028  Mass Casualty Triage
11-029  Patient Assessment and Improvised Medical Care
11-030  Overview of Tactical Medical Support to Military Special Operations
11-031  Climate Change Effects on Health

12-Wilderness Emergencies and Trauma Management
12-006  Death and Dying
12-013  Wilderness Trauma and Creativity
12-018  Simulation of Wilderness Emergencies
12-020  Wilderness First Aid
12-023  Management of Cardiac and Pulmonary Emergencies
12-028  Management of Overuse Injuries
12-030  Poison Control Centers
12-031  Field Management of Envenomations
12-034  Stress and Panic Reactions
12-035  Medical Emergencies at Sea
12-036  Hunting Injuries
12-037  Management of Ear, Nose and Throat Injuries and Conditions
12-038  Care of the Injured in the Wilderness for Extended Periods
12-039  Wilderness Medicine Case Scenarios
12-040  CPR in the Wilderness Environment
12-041  Field Management of Dislocations
12-042  Management of Diabetes
12-043  Neurologic Conditions
12-044  Management of the Acute Abdomen
12-045  Traction Splinting
12-046  Management of Shock
12-047  Intravenous Access in Austere Environments
12-048  Medicine in Austere Settings
12-049  Hemorrhage Control Techniques
12-050  Trauma and Hypothermia
12-053  Adapting to Isolation and Darkness
13 - Wilderness Medicine Faculty Development
13-001  Excellence in Teaching
13-002  Fundamentals of Adult Learning Theory
13-003  Preparing Presentations
13-004  Public Speaking
13-005  Curriculum Development
13-006  Feedback and Evaluation
13-007  Information Mastery in Medicine
13-008  Planning for Courses, Conferences and Seminars
13-009  Teaching One on One and in Small Groups
13-010  Teaching Procedures
13-011  The Educator's Portfolio
13-012  Ambulatory and Bedside Teaching
13-013  Faculty Mentoring and Leadership
13-014  Managing Successful Meetings
13-015  Testing and Evaluation - Outcomes Assessment

14- Wilderness Medicine Research
14-001  Overview of Research
14-002  Formulating the Research Question
14-003  Study Design
14-004  Handling Data
14-005  Epidemiology
14-006  Statistical Applications
14-007  Ethics in Research
14-008  Funding, Grants and Resources
14-009  Formulating the Research Proposal
14-010  Writing for Publication
14-011  Presenting Research (Presentations and Posters)
14-012  Human and Animal Use Studies

15 - Tactical Combat Casualty Care
15-001  Overview of Tactical Combat Casualty Care
15-002  CUF Guidelines, Moving Casualties, Drags, Carries
15-003  Practical Drags and Carries
15-004  Hemorrhage Control

16 - Desert Medicine
16-001  Overview of Desert Medicine
16-002  Desert Arthropods
16-004  Heat Illness Case Presentations
16-005  Desert Geocaching
16-006  Management of Heat Stroke
16-010  Desert Dermatology
16-012  Desert Search and Rescue
16-013  Desert Tracking
16-014  Desert Travel Medicine
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<td>Applied Physiology of Acute and Chronic Heat Exposure</td>
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<td>Hydration Guidelines</td>
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<td>Techniques for Effective Heat Acclimatization</td>
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