ACADEMIC SENATE PROPOSAL TRACKING SHEET

(Document To Be Originated By the Academic Senate Secretary On Canary Color Paper)

Proposal # 15-20	Title: Emergency (Medical) Health Science B.S.

(Proposal explanation, submitter and college dean signatures on attached program/degree or course revision form.)

All proposals MUST have their originating college faculty body (Ex. Arts & Sciences, Education and Nursing; Technical Sciences) **approval and must be signed by the submitter and the college dean before being submitted to the Academic Senate Secretary.**

1. Submit all proposals (using the appropriate Academic Senate program/degree and/or course revision forms or General Education Inclusion form) to the Academic Senate Secretary. **NOTE: Level 1 or Level 2 forms must be submitted concurrent with this proposal where applicable. For Education proposals, PEU approval must be received prior to forwarding the proposal to the Senate.**

2. The Academic Senate Secretary logs and numbers items and forwards them to the appropriate Academic Senate subcommittee(s): General Education (if applicable), or Curriculum. A transmittal e-mail will be sent to the Recording Secretary of the receiving committee, cc Provost's Administrative Assistant, by the Academic Senate Secretary. A digital copy of the proposal will be linked on the Academic Senate Proposal page by the Academic Senate Secretary.

3. The Academic Senate subcommittee(s) consider(s) the proposal. If approved, the proposal is returned to the Academic Senate Secretary for forwarding to the next committee. If a committee disapproves the proposal, the originator may request that the item be forwarded to the next body for consideration. The committee will provide written rationale to the originator, via the Academic Senate, when a proposal is disapproved and the proposal is returned to the originator. Upon completion of committee action, the proposal will be returned to the Academic Senate Secretary, and a transmittal e-mail sent by the Committee Recorder to the Senate Secretary, cc Provost's Administrative Assistant.

4. The Academic Senate considers the proposal and recommends approval or disapproval. If approved, the proposal is forwarded to the Provost for consideration. If the Academic Senate disapproves the proposal, the originator may request that the item be forwarded to the Full Faculty for consideration, utilizing the procedures set forth in the Senate Bylaws. The Academic Senate will provide written rationale to the originator when proposals are disapproved and the proposal is returned to the originator.

5. Approved proposals will be forwarded to the Provost. The Provost approves or disapproves the proposal. If approved, the proposal is then forwarded to the Chancellor. From this point forward, the Provost's Administrative Assistant will update the Proposal page on the website by contacting the webmaster.

7. The Chancellor approves or disapproves the proposal.

8. The proposal will then either be implemented or referred to MSU for further action. The tracking page on the Provost site will be updated as required.

Subcommittee and Academic Senate college representatives will notify their respective colleges' of the progress of submitted proposals or the proposal may be tracked via the web page -- http://www.msun.edu/admin/provost/senate/proposals.htm

Documentation and forms for the curriculum process is also available on the web page: http://www.msun.edu/admin/provost/forms.htm

*****(If a proposal is disapproved at any level, it is returned through the Academic Senate secretary and the Senate President, to the Dean of the submitting college who then notifies the originator.**

See back for tracking form

	Date	Action Taken	Signature	Date	Comments/Reason for Disapproval	Sent to	Date	Transmittal E-mail sent
***Abstract received by Senate Secretary**		Copy to Senate President. Forward to Provost.						
***Provost**		☐ Abstract Approved ☐ Disapproved						
Received by Senate Secretary	12/1/15	Tracking form initiated	D Bradley	12/1/15	forward to Gen Ed	1/12/16	Gary Sizoo	hand to personally
General Education Committee (if applicable)		☐ Approved ☐ Disapproved	Gary Sizoo	3/7/2016	BIOB 160/161 211/212 CHMY 121/122 PHSX 105 not offered.	3/7/2016	Byron Ophus	Inter office
Curriculum Committee (if applicable)	3/31/16	☒ Approved ☐ Disapproved	B Ophus	3/31/16	w/ chgs as noted on program revision form	Loreen	3/31/16	Handed to DEBRA
Academic Senate	4-12-16	☑ Approved ☐ Disapproved	Loreen Schubert		forward to Provost office	William Riggs	6/1/16	Handed to Chris B.
Full Faculty (if necessary)		☐ Approved ☐ Disapproved						
Provost	7-14-16	☒ Approved ☐ Disapproved	Wm. J. Riggs	7.14.16		CHANCR	7.15.16	
Chancellor	7-18-16	☒ Approved ☐ Disapproved	Gregory D. Kegel	7.18.16				
MSU	July 13 2016 Jan 11 2017	☑ Approved ☐ Disapproved	Intent to Plan submitted to BOR ~~OCHE~~ Sept 2016. Jan 6 2017 to Bozeman for March 2017 BOR meeting					
BOR	March 2017	☐ Approved ☐ Disapproved						
NWCCU		☐ Approved ☐ Disapproved						
Provost		Advise originating college and Academic Senate of status. Update Web page.						
Registrar		Catalog/Policy Manual Update						

NOTE: The secretary of the Academic Senate will update the Academic Senate Proposal web page from initial receipt until the proposal reaches the Provost. The Provost's Administrative Assistant will ensure that the current status of each proposal is maintained on the Academic Senate Proposal web page from that point forward. ***Abstract and pre-approval required for new programs ONLY.**

33 instead of 35

Cat IV → Cat III

BIOB 160/161 → cat III

for all Biology.

take off off.

March 9-10, 2017

174-2801-R0317

ITEM

Request for authorization to establish a B. S. Emergency Health Sciences

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THAT

Montana State University Northern is requesting authorization from the Board of Regents to offer a B.S. degree in Emergency Health Sciences to meet the medical staffing needs of the surrounding communities along the Northcentral Hi-Line.

EXPLANATION

Surveys conducted locally revealed that all EMS agencies in North Central Montana believed that they desperately needed more qualified EMS providers. Local agencies also reported that they have minimal opportunities to provide current EMS employees with state and nationally required refresher training and Continuing Education in order to relicense and retain their current care providers.

ATTACHMENTS

Academic Proposal Request Form
Curriculum Proposal Form
Approved Intent to Plan form 174-2801-R0317_A1

Montana Board of Regents
ACADEMIC PROPOSAL REQUEST FORM

ITEM 174-2801-R0317 Submission Month or Meeting: March 9-10, 2017

Institution: MSU Northern CIP Code: 51.0904

Program/Center/Institute Title: B. S. degree in Emergency Health Sciences

Includes (please specify below): Online Offering ____ Options ____

Please mark the appropriate type of request and submit with an Item Template and any additional materials, including those listed in parentheses following the type of request. For more information pertaining to the types of requests listed below, how to complete an item request, or additional forms please visit http://mus.edu/che/arsa/preparingacademicproposals.asp.

____ **A. Level I:**

Campus Approvals

1a. Placing a postsecondary educational program into moratorium (Program Termination and Moratorium Form)

1b. Withdrawing a postsecondary educational program from moratorium

2. Establishing, re-titling, terminating or revising a campus certificate of 29 credits or less

3. Establishing a B.A.S./A.A./A.S. area of study

4. Offering an existing postsecondary educational program via distance or online delivery

OCHE Approvals

5. Re-titling an existing postsecondary educational program

6. Terminating an existing postsecondary educational program (Program Termination and Moratorium Form)

7. Consolidating existing postsecondary educational programs (Curriculum Proposal Form)

8. Establishing a new minor where there is a major or an option in a major (Curriculum Proposal Form)

9. Revising a postsecondary educational program (Curriculum Proposal Form)

10. Establishing a temporary C.A.S. or A.A.S. degree program *Approval limited to 2 years*

Montana Board of Regents
ACADEMIC PROPOSAL REQUEST FORM

X **B. Level II:**

X **1. Establishing a new postsecondary educational program** (Curriculum Proposal and Completed Intent to Plan Form)

____ **2. Exceeding the 120 credit maximum for baccalaureate degrees** *Exception to policy 301.11*

____ **3. Forming, eliminating or consolidating an academic, administrative, or research unit** (Curriculum or Center/Institute Proposal and Completed Intent to Plan Form, except when eliminating or consolidating)

____ **4. Re-titling an academic, administrative, or research unit**

Specify Request:

Montana State University Northern is requesting authorization to offer a B.S. degree in Emergency Health Sciences to meet the medical staffing needs of the surrounding communities along the Northcentral Hi-Line. The BS in Emergency Health Sciences curriculum provides basic and advanced life support care to critically ill or injured patients. The students work directly with another EMT and AEMT to provide this level of care and in conjunction with a paramedic to provide advanced life support. This curriculum will introduce students to the foundations of providing high quality advanced emergency medical care.

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CURRICULUM PROPOSAL FORM

1. Overview

A. Provide a one paragraph description of the proposed program. Be specific about what degree, major, minor or option is sought.

This degree will include courses which will get individuals qualified for positions quickly for EMT, AEMT and Paramedic levels of EMS care. This degree will include building blocks and courses that are required for the Emergency Health Sciences B. S. Students who complete this program will be prepared to take the tests necessary to become certified as a Paramedic, and will have the body of knowledge that will prepare them for employment as a Paramedic.

2. Institutional and System Fit

A. What is the connection between the proposed program and existing programs at the institution?

The university currently offers a nursing program. We would be partnering with the nursing department. This will allow us to share resources such as training tools, simulator mannequins, and equipment as well as faculty and adjunct instructors.

B. Will approval of the proposed program require changes to any existing programs at the institution? If so, please describe.

No.

C. Describe what differentiates this program from other, closely related programs at the institution (if appropriate).

This program is completely unique to the University with the exception of similarities of the medical training the nurses receive. However, the certification and licensure is significantly different with exclusive requirements and learning objectives.

D. How does the proposed program serve to advance the strategic goals of the institution?

We believe we will ease the burden of low qualified applicants for volunteer and professional services by providing quality, initial, and ongoing EMS training to the surrounding communities and agencies. MSU Northern has been working with MSU Great Falls to duplicate their successful program and utilize their experience and guidance to build a successful and sustainable EMS program now and into the future. By offering local classes to our communities they can properly staff their life saving ambulances with highly trained, qualified care providers and meet the needs of their home town communities. Our program will work closely with these agencies to meet local training needs as well as collaborate and combine resources to hold initial training classes for several agencies at one time. The BS Emergency Health Sciences program is being designed from the ground up to improve health care in the field by reducing morbidity and mortality while creating a self-sustaining program for the extended future.

Montana Board of Regents
CURRICULUM PROPOSAL FORM

E. Describe the relationship between the proposed program and any similar programs within the Montana University System. In cases of substantial duplication, explain the need for the proposed program at an additional institution. Describe any efforts that were made to collaborate with these similar programs; and if no efforts were made, explain why. If articulation or transfer agreements have been developed for the substantially duplicated programs, please include the agreement(s) as part of the documentation.

As stated above, we are working closely with MSU-Great Falls to duplicate their very successful and sustainable program. The Great Falls Program is similar to ours in that it is born out of need by the surrounding communities and currently draws non-local student to the campus. The non-local students receive this training and return to their hometowns to care for their communities and neighbors. Over time we will establish ourselves as a viable EMS training program in the state and country by producing highly trained and competent students who are successful and achieving national accreditation.

3. Program Details

A. Provide a detailed description of the proposed curriculum. Where possible, present the information in the form intended to appear in the catalog or other publications. NOTE: In the case of two-year degree programs and certificates of applied science, the curriculum should include enough detail to determine if the characteristics set out in Regents' Policy 301.12 have been met.

The BS in Emergency Health Sciences curriculum provides basic and Advanced life support care to critically ill or injured patients. The students work directly with another EMT and AEMT to provide this level of care and in conjunction with a paramedic to provide advanced life support. This curriculum will introduce students to the foundations of providing high quality advanced emergency medical care. The program courses will cover areas such as medical ethics, legal responsibilities, documentation, and ambulance operations. It will also cover anatomy and physiology, pharmacology, IV access, Patient assessment, and airway managements. This program will then cover the etiologies behind shock, CPR, and medical emergencies including assessment and management of the disease process. The Students learn to manage an airway using artificial devices, assess the severity of illness or injury, manage wounds and bleeding, immobilize fractures, perform CPR, initiate IVs, utilized an automated defibrillator and a host of other procedures. Recent curriculum changes at the national and state level allow students to administer some medications.

B. Describe the planned implementation of the proposed program, including estimates of numbers of students at each stage.

According to the TAACCCT 4 grant all courses must be approved and running for Fall semester 2017. We would like to begin offering EMT and EMR courses for 10-12 students in Spring 2016 as special topics. We plan to begin offering EMR, EMT, AEMT and Paramedic courses for 10-12 students during the Fall semester of 2016 as well as accept students into the degree programs to demonstrate success on all levels to the TAACCCT 4 grant prior to the deadline of Fall 2017.

4. Need

A. To what specific need is the institution responding in developing the proposed program?

Needs assessments were completed as a requirement of the TAACCCT 4 grant by inquiring as to the medical staffing needs of the city of Havre, Hill County, and the surrounding communities that fall within the jurisdiction of the Montana State University – Northern. Subjects of this survey included the Northcentral Hi-line area local hospitals, doctor offices, nursing homes, emergency medical services, tribal colleges, clinics,

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CURRICULUM PROPOSAL FORM

and other health care providers. The surveys revealed that all EMS agencies in the North Central Montana believed that they desperately needed more qualified EMS providers. The agencies also reported that they have minimal opportunities to provide current EMS employees with state and nationally required refresher training and Continuing Education in order to relicense and retain their current care providers. Many agencies are staffed by volunteers who have minimal resources to travel great distances to places such as Great Falls to attend established and successful EMS programs. The agencies themselves feel that they are unable to share or take on the burden of paying for travel for potential candidates due to tightly stretched budgets that are struggling to stock the ambulance shelves with needed supplies. The agencies described tight Medicaid requirements and limitations on how much can be billed for, noting that there are low collection rates for uninsured patients.

B. How will students and any other affected constituencies be served by the proposed program?

By offering local training we can increase the number of responders and qualified ambulance volunteer available to staff the ambulances. Havre Fire will have experience a significantly increase hiring pool to get the best candidate due to the increase in qualified candidates. During the last hiring process Havre Fire only received 4 applications and not all of them were qualified with the minimum EMT certification.

C. What is the anticipated demand for the program? How was this determined?

Though our needs assessment we believe that we will see a class of 6-12 EMR students every year, 6-12 EMT students every semester, 6-12 AEMT students every other year as well as 6-12 Paramedic students every year.

5. Process Leading to Submission

A. Describe the process of developing and approving the proposed program. Indicate, where appropriate, involvement by faculty, students, community members, potential employers, accrediting agencies, etc.

The program began with the TAACCCT 4 steering committee performing a community needs assessment. They identified the need for EMS training. A contract was established with an individual to begin the process of creating the EMS program to meet the needs of the community. We then started looking to other campuses within the university system. We have worked closely with the MSU-Great Falls to replicate their successful program and fit the National EMS curriculum into the university format. We have continued to develop all levels of the programs and ensuring that we are meeting National and State standards for EMS education. We have put together the following for each level and course: text books, workbooks, Instructor material, PPT, Syllabus, Program descriptions, course descriptions, course objectives, Schedules, Lab Fees, Exams, Skill sheets. We are ordering the required equipment through the TAACCCT 4 grant as funds become available.

6. Resources

A. Will additional faculty resources be required to implement this program? If yes, please describe the need and indicate the plan for meeting this need.

Initially we will required one FTE for the first EMT course and continuing of program development. This position will be funded through the TAACCCT 4 grant until the program can become approved and established. The EMT course will require adjunct instructors 50% of the time to meet Instructor to student ratios. Once we being offering AEMT courses the program will require 2 FTE and several part time instructors. 1 FTE will cover the EMT course and continued Program development and 1 FTE will Manage the AEMT

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CURRICULUM PROPOSAL FORM

course. Part time Faculty will be required to meet Instructor to student ratios as well as bring in expert instructors. For the Paramedic certificate course the program will require an additional 2 FTE to cover course instruction as well as clinical and internship management. The Paramedic classes will utilize EMT, AEMT instructors as well as part time Faculty to meet state and national instructor to student ratios. All of these positions will be funded by the TAACCCT 4 grant until the program can become established itself.

B. Are other, additional resources required to ensure the success of the proposed program? If yes, please describe the need and indicate the plan for meeting this need.

Training equipment for lab and skills development. All these items are initially funded through the TAACCCT 4 grant. All non-durable and non-reusable equipment and material will be covered in the course lab fees to create a self-sufficient program.

7. Assessment

How will the success of the program be measured?

The success of the program will be measured in several ways. First we will monitor student's successful completion and passing of the National Registry certification exam. This is required for students to receive their license and become qualified care providers. We will also continuously perform needs assessment of the communities and surrounding agencies to ensure we are meeting the purpose of the TAACCCT 4 grant. We will perform regular sustainability studies based on student's admission to the program. Lastly, we will seek national accreditation to ensure that we are providing the highest level of training and education for our students.

September 8, 2016

174-2801-R0317_A1

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Montana University System

INTENT TO PLAN FORM

Program/Center/Institute Title: **B.S. Emergency Medical Services**

Campus, School/Department: **MSU Northern/Nursing** Expected Submission Date: **Nov. 2016**

Contact Name/Info: **William Rugg (406-265-3276)**

To increase communication, collaboration, and problem solving opportunities throughout the MUS in the program/center/institute development process, please complete this form not more than 18 months in advance of the anticipated date of submission of the proposed program/center/institute to the Board of Regents for approval. The completed form should not be more than 2-3 pages. For more information regarding the Intent to Plan process, please visit http://mus.edu/che/arsa/preparingacademicproposals.asp.

1) **Provide a description of the program/center/institute.**

This degree will provide courses to assist individuals in becoming fast-tracked into EMT, AEMT, and Paramedic levels of EMS care. This degree will include building blocks and courses that are required for the Emergency Medical Services B.S. Students completing this program will be prepared to take the exams necessary to become certified as a Paramedic, as well as providing the body of knowledge that will prepare them for employment as a Paramedic.

2) **Describe the need for the program/center/institute. Specifically, how the program/center/institute meets current student and workforce demands. (Please cite sources).**

Employment of emergency medical technicians (EMTs) and paramedics is projected to grow 23 percent from 2012 to 2022, much faster than the average for all occupations (Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2014-15 Edition, EMTs and Paramedics). HealthCARE is the largest and fastest-growing industry in the United States, and most of the related occupations require workers to have skills that meet the needs of rapidly changing healthcare environments (http://healthcaremontana.org/). Along the Hi-Line the need is "desperate;" there are currently less than five EMTs available to serve the communities between Cut Bank and Wolf Point.

This program is completely unique to MSUN, with the exception of some medical training that takes place in the Nursing program (i.e. CPR). The certification and licensure, however, are significantly different and unique, with exclusive requirements and learning objectives. The program is being developed completely through the statewide TAACCCT IV grant, part of the $450 million Trade Adjustment Assistance Community College and Career Training initiative and the fourth round of federal investments meant to help community colleges expand their training capabilities.

3) **Describe how the program/center/institute fits with the institutional mission, strategic plan, and existing institutional program array.**

Montana University System
INTENT TO PLAN FORM

MSUN's Mission Statement: "MSU Northern provides higher education to students for professional and technical careers through an institution dedicated to teaching and the pursuit of knowledge."

MSUN's Vision Statement: "Montana State University-Northern will be known for its supportive, student-centered environment in which a unique mix of academic programs are responsive to local, regional, and state workforce needs, offered in an atmosphere that promotes student success."

This program fits in very well with the current nursing program and the university's strategic plan to create a College of Health Sciences that will include Nursing, Health Care, and Health Promotions. The proposed program and courses will build upon the current structure to provide the healthcare training that is needed in this region.

4) How does the proposed program/center/institute fit within the MUS system?

This program is part of the HealthCARE Montana partnership, funded by the statewide TAACCCT IV grant. The need for this program is well documented throughout the state; the need for certified EMS practitioners is critical. MSUN is well-suited to offer this program, well a long-standing and well-respected Nursing program.

Signature/Date

College/School Dean: Carol A. Rupchund 9-7-16

Chief Academic Officer: William J. Rugg 9-7-16

Chief Executive Officer: Gregory D. Kegel 9.8.2016

Flagship Provost*: DocuSigned by: Robert Mokwa 9/8/2016

Flagship President*: 9/8/2016

*Not applicable to the Community Colleges.

Date of Final Review: November 18, 2016

When submitting the proposal to the BOR, include this signed form with the Level II request.

PROGRAM/DEGREE REVISION FORM

NEW_X_ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Services Date 1/20/2017

Submitter_____ Dean _____ Date_____

Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s).
Creation of an EMS program based on community needs and funded through the TAACCCT4 grant

Please provide in the space below a "before and after" picture of the program with the changes in the program noted. Attach appropriate Course Revision Forms. Please indicate changes by shading the appropriate cells.

PROPOSAL TITLE B.S. In Emergency Health Sciences

Current Program listed in 15-16 Catalog

Course Prefix	#	Course Title	Credits
		Total	

Proposed Program for 16-17 Catalog

Course Prefix	#	Course Title	Gen-Ed Credits	Degree Credits
Cat I		Communications	6	
Cat II		Mathematics	3	
BIOH	201/202	Human A&P w/Lab I (Cat III)	4	
BIOH	211/212	Human A&P w/Lab II (Cat III)	4	
Cat IV		Social Science/History	6	
Cat V		Cultural Diversity	3	
Cat VI		Humanities/Fine Arts	6	
Cat VII		Technology	3	
ECP	131	Emergency Medical Technician w/ Clinical	✓	7
ECP	3xx	Paramedic I w/ Critical Care Prep	✓	4
ECP	3xx	Paramedic II w/ Critical Care Prep	✓	4
ECP	3xx	Paramedic III w/ Critical Care Prep	✓	4
ECP	3xx	Paramedic Lab I w/ Critical Care Prep	✓	3
ECP	3xx	Paramedic w/ Critical Care Prep Clinical I	✓	3
ECP	212	Advanced Cardiac Life Support (ACLS)	✓	1
ECP	3xx	Paramedic IV w/ Critical Care Prep	✓	4
ECP	3xx	Paramedic V w/ Critical Care Prep	✓	4
ECP	3xx	Paramedic Lab II w/ Critical Care Prep	✓	3
ECP	3xx	Paramedic w/ Critical Care Prep Clinical II	✓	4
ECP	241	Pediatric Advanced Life Support (PALS)	✓	1
ECP	240	Pre-Hospital Trauma Life Support (PHTLS)	✓	2
ECP	4xx	Paramedic w/Critical Care Prep Field Internship	✓	6
		Electives		35
		Total: 120 Credits	**35**	**85**
		Classes listed below are recommended but not required for degree completion		
ECP	2xx	*Foundations of Advanced Emergency Medical Technician (AEMT)*	✓	*6*
ECP	2xx	*Foundations of Advanced Emergency Medical Technician -Lab*	✓	*1*
ECP	2xx	*Applications of Advanced Emergency Technician (AEMT)*	✓	*6*
ECP	2xx	*Applications of Advanced Emergency Technician -Lab*	✓	*1*
ECP	2xx	*Advanced Emergency Technician -Clinical I*	✓	*1*
ECP	2xx	*Advanced Emergency Technician -Clinical II*	✓	*2*
ECP	2xx	*Advanced Emergency Technician – Field Internship*	✓	*3*

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.
All additional Faculty, equipment and other items are funded through TAACCCT4 Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW____ DROPPED____ MAJOR REVISION X___ FOR INFORMATION ONLY ____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This course is found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:

College: **MSU-Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 131 (FLOCKED)

Course Title: Emergency Medical Technician with clinical
Credits: 7

Required by: EMT course, AEMT course, Paramedic course, A.S. in Emergency Health Sciences and B.S. in Emergency Health Sciences
Selective in:
Elective in:
General Education:

Lecture: **6 credits**
Lecture/Lab:
Gradable Lab: 1 credit
Contact hours lecture: 90 contact hours
Contact hours lab: 30 contact hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):

This course is the nationally recommended minimum level of training for ambulance personnel and is considered the desired level of medical training by many fire departments. The course focuses on skill development in the primary responsibilities of the Emergency Medical Technician (EMT), which are to bring emergency medical care to victims of emergencies, to stabilize their condition, and to transport them safely and expeditiously to an appropriate facility. This course is a combination of classroom work and practical experience. Upon successful completion of the course, graduates are eligible to sit for the Montana and National Registry certification examinations. All aspects of authorization/certification are the responsibility of the student. Note: Students must be 18 years of age and have a current BLS HCP card to take the national certification examination; however, students may be younger to take this course.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of Emergency Medical Services (EMS) in the health care system
2. Describe the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of EMTs
4. Perform the roles and responsibilities of an EMT pertaining to personal safety and wellness, and to the safety of others
5. Perform the duties of an EMT with regard for medicolegal and ethical issues, including functioning under medical direction and within the scope of practice
6. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients.
7. Identify the need for and implementation of immediate life-saving interventions to manage a patient's airway, breathing, and circulation.
8. Perform assessment and management of patients of all ages with a variety of complaints, medical conditions and traumatic injuries
9. Apply principles of emergency medical services operations, considerations, multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Services (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: Emergency Medical Services Program
Date: 1/20/2017
Course Prefix & No.: ECP 3XX

Course Title: Paramedic I with Critical Care Prep
Credits: 4

Required by: Paramedic course completion and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **4 credits**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: **60 contact hours**
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
The purpose of the Paramedic I course is to provide an introduction to the practice of paramedicine and will provide the student with information regarding preparatory aspects of the pre-hospital environment. Topics include: role and responsibilities of the paramedic; well-being of the paramedic; injury prevention; medical-legal issues, ethics; assessment and management; communication and documentation; pharmacology; venous access and medication administration; as well as, airway management and ventilation. This course will also introduce the students to Critical Care topics. This is a Montana Board of Medical Examiners-certified course which combines lecture, skill demonstration, and skill practice to provide well-rounded education. Current CPR and EMT certification is required. Successful completion of this course, other paramedic courses, and successfully passing the National Registry examinations merits certification,

good for a period of two years. This certification is the standard in Montana and many other states.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the health care system
2. Interpret the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of paramedics
4. Perform the roles and responsibilities of a paramedic with regard to personal safety and wellness, as well as the safety of others
5. Perform the duties of a paramedic with regard for medical-legal and ethical issues, including functioning under medical direction and within the scope of practice
6. Apply principles of: anatomy; physiology; pathophysiology; life-span development; and therapeutic communications to the assessment and management of patients
7. Assess and manage patients of all ages with a variety of complaints, medical conditions, and traumatic injuries
8. Apply principles of emergency medical services operations, including: considerations; multiple casualty incidents; gaining access to and extricating patients; hazardous materials incidents; and responding to situations involving weapons of mass destruction
9. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting
10. Analyze the principles of medication administration for critical care transport patients (CCTPs), including patient and medication selection, predicted and desired responses, absorption and elimination principles, side effects or adverse medication reactions, and transport and monitoring considerations
11. Summarize an overview of airway management medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions
12. Summarize an overview of cardiovascular system medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions
13. Explain the overall principles of laboratory analysis

14. Reconstruct the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care.

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW X DROPPED ____ MAJOR REVISION ____ FOR INFORMATION ONLY ____

College CEASN Program Area Emergency Medical Services (EMS) Date 1/20/2017

Submitter _____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: Emergency Medical Services Program
Date: 1/20/2017
Course Prefix & No.: ECP 3XX

Course Title: Paramedic II with Critical Care Prep
Credits: 4

Required by: Paramedic course completion and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **4 credits**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 60 contact hours
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
The purpose of Paramedic II course is to provide information as it relates to patient etiologies for medical emergencies in and out of hospital setting in the areas such as, neurological, and endocrine emergencies. This course also covers allergic reactions, infection and communicable diseases, and gastrointestinal, toxicological and urological emergencies. This course will explore hematological, environmental, EENT, and behavioral emergencies. Assessment and management of the topic areas will be discussed and evaluated. An understanding of the assessment process and the pathophysiology will be vital in managing patients with these course topics. Finally, this course will introduce students to Critical Care practices. This Montana Board of Medical Examiners certified course combines lecture, skill demonstration, and skill practice to provide well-rounded education. Current CPR and EMT certification is required. Approval from EMS

coordinator is required prior to enrollment. Successful completion of this course, other paramedic courses, and successfully passing the National Registry examinations merits certification good for a period of two years. This certification is the standard in Montana and many other states.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the patient etiologies for medical emergencies.
2. Interpret the etiologies of neurological and endocrine emergencies.
3. Describe the pathologies of allergic reactions, infection and communicable diseases, and gastrointestinal, toxicological and urological emergencies.
4. Perform the roles and responsibilities of a paramedic pertaining to personal safety and wellness, and to the safety of others.
5. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients.
6. Recognize the need for and perform immediately life-saving interventions to manage a patient's airway, breathing, and circulation.
7. Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries.
8. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
9. Analyze the principles of medication administration for critical care transport patients (CCTPs); including: patient and medication selection; predicted and desired responses; absorption and elimination principles; side effects or adverse medication reactions; and transport and monitoring considerations.
10. Summarize an overview of cardiovascular system medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions.
11. Explain the overall principles of laboratory analysis.
12. Reconstruct the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care.

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant. Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Services (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: Emergency Medical Services Program
Date: 1/20/2017
Course Prefix & No.: ECP 3XX

Course Title: Paramedic III with Critical Care Prep
Credits: 4

Required by: Paramedic course completion and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **4 credits**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 60 contact hours
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
The purpose of Paramedic III course is to provide information as it relates to patient etiologies for medical emergencies in and out of hospital setting in the areas of shock and cardiac care. The course provides a foundation and understanding in both basic and 12-lead ECG interpretation. Advance cardiac life support algorithms will be studied in detail and practiced. The use of a manual defibrillator and cardiac monitor are also covered. Assessment and management of patients in shock, or having cardiac emergencies will be discussed and evaluated. An understanding of the assessment process and the pathophysiology will be vital in managing patients with these course topics. Finally, this course will introduce the students to critical care principles. This Montana Board of Medical Examiners-certified course combines lecture, skill demonstration, and skill practice to provide well-rounded education. Current CPR and EMT certification is

required. Approval from EMS coordinator is required prior to enrollment. Successful completion of this and other Paramedic Program courses, and successfully passing the National Registry examinations merits certification, valid for a period of two years. This certification is the standard in Montana and many other states.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in early Acute Myocardial Infarction detection
2. Describe the etiologies of shock and cardiac care
3. Demonstrate cardiac arrest management
4. Perform and interpret basic and 12-lead EKGs
5. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
6. Recognize the need for and implementation of immediate, life-saving interventions to manage a patient's airway, breathing, and circulation
7. Assess and manage patients of all ages with a variety of complaints, medical conditions, and traumatic injuries
8. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting
9. Analyze the principles of medication administration for critical care transport patients (CCTPs), including: patient and medication selection; predicted and desired responses; absorption and elimination principles; side effects or adverse medication reactions; and transport and monitoring considerations
10. Summarize an overview of airway management medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions
11. Explain the overall principles of laboratory analysis
12. Reconstruct the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care
13. Discuss the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care.

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Services (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date_____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: Emergency Medical Services Program
Date: 1/20/2017
Course Prefix & No.: ECP 3XX

Course Title: Paramedic Lab I with Critical Care Prep
Credits: 3

Required by: Paramedic course completion and B.S. in Emergency Health Sciences
Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab:
Gradable Lab: 3 credits
Contact hours lecture:
Contact hours lab: 60 contact hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course provides information as it relates to patient etiologies for medical emergencies in and out of hospital settings in the areas such as pathophysiology; pharmacology and all skills covered in Paramedic I, Paramedic II, and Paramedic III. This course also covers ethics, communication, airway, patient assessment, pulmonology, and cardiology. Assessment and management of the topic areas will be discussed and evaluated. An understanding of the assessment process and the pathophysiology will be vital in managing patients with these course topics. This Montana Board of Medical Examiners-certified course combines lecture, skill demonstration, and skills practice to provide a well-rounded education. Current CPR and EMT certification is required. Approval from EMS coordinator is required prior to enrollment.
Co-Requisites: Paramedic I with Critical Care Prep, Paramedic II with Critical Care Prep, Paramedic III with Critical Care Prep.

Successful completion of this course, other Paramedic courses and successfully passing the National Registry examinations merits certification good for a period of two years. This certification is the standard in Montana and many other states.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the health care system
2. Interpret the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of paramedics.
4. Perform the roles and responsibilities of a paramedic pertaining to personal safety and wellness, and to the safety of others
5. Perform the duties of a paramedic with regard for medicolegal and ethical issues, including functioning under medical direction and within the scope of practice
6. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
7. Recognize the need for and perform immediately, life-saving interventions to manage a patient's airway, breathing, and circulation
8. Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries
9. Apply principles of: emergency medical services operations; considerations; multiple casualty incidents; gaining access to and the extrication of patients; hazardous materials incidents; and responding to situations involving weapons of mass destruction.
10. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting
11. Analyze the principles of medication administration for CCTPs, including: patient and medication selection; predicted and desired responses; absorption and elimination principles; side effects or adverse medication reactions; and transport and monitoring considerations
12. Summarize an overview of airway management medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions

13. Summarize an overview of cardiovascular system medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions

14. Explain the overall principles of laboratory analysis

15. Reconstruct the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

withCOURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Services (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: Emergency Medical Services Program
Date: 1/20/2017
Course Prefix & No.: ECP 3XX

Course Title: Paramedic with Critical Care Prep Clinical I
Credits: 3

Required by: Paramedic course completion and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab:
Gradable Lab: 3 clinical credits
Contact hours lecture:
Contact hours lab: 135 clinical hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course introduces paramedic students to the clinical arena and begins their ambulance ride-along experience. During the ride-along experience, students will become acquainted with the operations of an ambulance service. Students will focus on how they can be an effective team member of an ambulance crew and gain needed experience in assessment and management of medical emergencies in the pre-hospital setting. Students will also be scheduled for shifts in the emergency department. They will gain experience assessing patients in real-life emergencies. They will also practice performing EMS skills, such as: IVs; medication administration; performing 12 lead ECGs; and airway management skills with a focus on endotracheal intubation. In addition to the Emergency Department rotation, Students will be scheduled in the surgical department. The clinical and field internship experience allows the students to integrate knowledge

and skills from the classroom setting into actual patient care in the hospital and field domain. Students are expected to complete their clinical (in-hospital) experience in anticipation of starting their internship. Students will continue to interact with hospital staff in clinical areas such as Pediatrics, OB/GYN, ICU, CICU, Behavioral, OR, and ER. Students also continue ambulance ride-alongs with an area of focus specific of advance life support.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the health care system
2. Interpret the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of paramedics
4. Perform the roles and responsibilities of a paramedic pertaining to personal safety and wellness, and to the safety of others.
5. Perform the duties of a paramedic with regard for medical-legal and ethical issues, including functioning under medical direction and within the scope of practice
6. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
7. Recognize the need for and perform immediately, life-saving interventions to manage a patient's airway, breathing, and circulation
8. Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries
9. Apply principles of emergency medical services operations, considerations, multiple casualty incidents; gaining access to and the extrication of patients; hazardous materials incidents; and responding to situations involving weapons of mass destruction
10. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
11. Analyze the principles of medication administration for critical care transport patients (CCTPs) including patient and medication selection, predicted and desired responses, absorption and elimination principles, side effects or adverse medication reactions, and transport and monitoring considerations.
12. Summarize an overview of airway management medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions

13. Summarize an overview of cardiovascular system medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions

14. Explain the overall principles of laboratory analysis

15. Reconstruct the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care

16. Demonstrate proficiency of all skills within the paramedic scope of practice

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW____ DROPPED____ MAJOR REVISION X___ FOR INFORMATION ONLY____

College COEASN Program Area Emergency Medical Services (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):

This course is found under the ECP (Emergency Care Provider) Montana University System Common Course Numbering Course Guide. This course is required to meet the deliverables of the Department of Labor TAACCCT4 Grant.

Please provide the following information:

College: MSU - Northern
Program Area: Emergency Medical Services Program
Date: 1/20/2017
Course Prefix & No.: ECP 212 [FLOCKED]

Course Title: Advanced Cardiac Life Support (ACLS)
Credits: 1

Required by: Advanced Emergency Medical Technician course completion, Paramedic course completion, A.S. in Emergency Health Sciences and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: 1 credit

Lecture/Lab:
Gradable Lab:
Contact hours lecture: **15 contact hours**
Contact hours lab:

Current Catalog Description (include all prerequisites):
No current catalog description

Proposed or New Catalog Description (include all prerequisites):

This course provides instruction and assistance to students in preparing for the American Heart Association's Advanced Cardiac Support Provider Course. ACLS covers course topics of advanced cardiac life support assessment and management of the patients with acute cardiac conditions including cardiac arrest, tachycardia, bradycardia, stroke, and acute coronary syndrome.

Course Outcome Objectives:

1. Recognize and initiate early management of peri-arrest conditions that may result in cardiac arrest or complicate resuscitation outcome.
2. Demonstrate proficiency in providing BLS care, including prioritizing chest compressions and integrating AED use.
3. Manage cardiac arrest until return of spontaneous circulation (ROSC), termination of resuscitation, or transfer of care.
4. Identify and treat ischemic chest pain and expedite the care of patients with acute coronary syndromes.
5. Recognize other life-threatening clinical situations, such as stroke, and provide effective initial care and transfer to reduce disability and death.
6. Demonstrate effective communication as a member or leader of a resuscitation team and recognize the impact of team dynamics on overall team performance.

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

Adult and infant manikins, student manuals, barrier devices, Bag/Valve/Masks, American Heart Association DVD and instructor book, 12-lead cardiac strip monitor, ET tubes All of these items have been funded through the TAACCCT4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW_X_ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College COEASN_____ Program Area Emergency Medical Services (EMS) Date 1/20/2017
Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP (Emergency Care Provider) state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 3XX

Course Title: Paramedic IV with Critical Care Prep
Credits: 4

Required by: Paramedic course completion and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **4 credits**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 60 contact hours
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
The Paramedic IV course will introduce or reinforce the understanding, assessment, and management practices within the scope of a paramedic in the area of traumatic emergencies and ambulance operations. The first part of the course will cover trauma in the areas of trauma systems and mechanisms of injury, to include: hemorrhage and shock; soft tissue trauma; burns; head and facial trauma; spinal trauma; thoracic trauma; abdominal trauma; and musculoskeletal trauma. The second part of this course will focus on ambulance operations, which include: medical incident command; rescue awareness and operations; crime scene awareness; hazardous materials incidents; and bioterrorism and weapons of mass destruction. It will then provide an introduction to the interfaculty transfer area. This course will prepare the successful candidate for the rigorous National Registry Certification examination. The Fisdap Paramedic readiness examination will be utilized as the final. This Montana Board of Medical Examiners-certified course

combines lecture, skill demonstration, and skill practice to provide well-rounded education. Successful completion of this course, other courses within the Paramedic Program, and successfully passing the National Registry examinations merits certification, valid for a period of two years. This certification is the standard in Montana and many other states. Current CPR and EMT certification is required. Approval from EMS coordinator is required prior to enrollment.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the trauma system
2. Describe the differences for trauma level receiving facilities
3. Demonstrate proficiency in managing patients with multi-system trauma
4. Describe the role of EMS within the incident command system
5. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
6. Recognize the need for and implementation of immediate, life-saving interventions to manage a patient's airway, breathing, and circulation
7. Apply principles of emergency medical services operations; considerations; and multiple casualty incidents; gaining access to and extricating patients; hazardous materials incidents; and responding to situations involving weapons of mass destruction
8. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting
9. Analyze the principles of medication administration for CCTPs, including: patient and medication selection; predicted and desired responses; absorption and elimination principles; side effects or adverse medication reactions; and transport and monitoring considerations
10. Summarize an overview of airway management medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions
11. Summarize the CCTP's impact on preventing trauma deaths by performing proper prehospital care and transporting to the appropriate trauma center
12. Explain the overall principles of laboratory analysis

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 3XX

Course Title: Paramedic V with Critical Care Prep
Credits: 4

Required by: Paramedic course completion and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: 4 credits
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 60 contact hours
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
Paramedic V will complete the student's study of medical emergencies, including gynecology, obstetrics, neonatology, pediatrics, and geriatrics. Other special considerations will include: emergencies in the elderly; abuse and assault; patients with special challenges; and acute interventions for the chronic care patient. Students will be required to research an EMS-related subject (as approved by instructor) and present their findings to the class. This class will also introduce the students to ventilator and IV pump management. Additionally, it will be within the scope of this course to prepare the successful candidate for the rigorous National Registry Certification examination. The Fisdap Paramedic readiness examination will be utilized as the final. This Montana Board of Medical Examiners-certified course combines lecture, skill demonstration, and skill practice to provide well-rounded education. Successful completion of this course in conjunction with the Paramedic Program and successfully passing the National Registry

examinations merits certification, valid for a period of two years. This certification is the standard in Montana and many other states. **Prerequisites:** Current CPR and EMT certification is required. Approval from EMS coordinator is required prior to enrollment. EMT and BLS certificates and instructors permission are required prior to taking this class. A&P 1&2 are pre or co-requisites.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the differences in care for neonates
2. Describe the common emergencies with obstetrics and gynecology
3. Demonstrate proficiency for managing patients with special challenges
4. Demonstrate effective management of patients on ventilators
5. Perform medication calculation and setting up IV pumps correctly
6. Apply principles of: anatomy; physiology; pathophysiology; life-span development; and therapeutic communications to the assessment and management of patients
7. Apply principles of emergency medical services operations, including: considerations; multiple casualty incidents; gaining access to and extrication of patients; hazardous materials incidents; and responding to situations involving weapons of mass destruction
8. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting
9. Analyze the principles of medication administration for CCTPs, including: patient and medication selection; predicted and desired responses; absorption and elimination principles; side effects or adverse medication reactions; and transport and monitoring considerations
10. Summarize an overview of airway management medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions
11. Discuss the CCTP's impact on preventing trauma deaths by performing proper prehospital care and transporting to the appropriate trauma center
12. Explain the overall principles of laboratory analysis
13. Summarize the differences in the general approach to critical care transport patient assessment between adult and pediatric patients

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW X DROPPED ____ MAJOR REVISION ____ FOR INFORMATION ONLY ____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter _____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: **MSU-Northern**
Program Area: EMS Program, College of Education, Arts & Sciences, and Nursing
Date: 1/20/2017
Course Prefix & No.: ECP 3XX

Course Title: Paramedic Lab II with Critical Care Prep
Credits: 3

Required by: Paramedic course and BS in Emergency Health Sciences.

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab:
Gradable Lab: **3 credits**
Contact hours lecture:
Contact hours lab: 60 contact hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course is a continuation of Paramedic Lab I with reinforcement and application of topics previously covered, such as airway and breathing management skills, cardiac assessment and management, and the assessment and management of a medical patient. It will introduce and reinforce the assessment and management of gastroenterology, gynecology, endocrinology, toxicology, and traumatic emergencies. This class will also cover obstetrics, pediatrics, geriatrics, transport operations and all skills covered in Paramedic IV, Paramedic V, and Paramedic VI. This Montana Board of Medical Examiners-certified course combines lecture, skill demonstration, and skill practice to provide well-rounded education. Successful completion of this course in conjunction with the Paramedic Program and successfully passing the National Registry examinations merits certification, valid for a period of two years. This certification is the standard in

Montana and many other states. Current CPR and EMT certification is required. Approval from EMS coordinator is required prior to enrollment.

Course Outcome Objectives:

Upon completion of this course, students will be able to:

1. Describe the roles of EMS in the health care system
2. Interpret the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of paramedics
4. Perform the roles and responsibilities of a paramedic pertaining to personal safety and wellness, and to the safety of others
5. Perform the duties of a paramedic with regard for medicolegal and ethical issues, including functioning under medical direction and within the scope of practice.
6. Apply principles of: anatomy; physiology; pathophysiology; life-span development; and therapeutic communications to the assessment and management of patients
7. Recognize the need for and implementation of immediate, life-saving interventions to manage a patient's airway, breathing, and circulation
8. Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries
9. Apply principles of: emergency medical services operations; considerations; multiple casualty incidents; gaining access to and extricating patients; hazardous materials incidents; and responding to situations involving weapons of mass destruction
10. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting
11. Analyze the principles of medication administration for CCTPs, including: patient and medication selection; predicted and desired responses; absorption and elimination principles; side effects or adverse medication reactions; and transport and monitoring considerations
12. Summarize an overview of airway management medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions
13. Summarize an overview of cardiovascular system medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions
14. Explain the overall principles of laboratory analysis

15. Reconstruct the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care and how to manage AMI patients

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area: Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: **MSU-Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program,
Date: 1/20/2017
Course Prefix & No.: ECP 3XX

Course Title: Paramedic with Critical Care Prep Clinical II
Credits: 4

Required by: Paramedic course and BS in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab:
Gradable Lab: 4 clinical credits
Contact hours lecture:
Contact hours lab: 180 clinical hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course introduces Paramedic students to the clinical arena and starts their ambulance ride-along experience. Students will be scheduled for shifts in the emergency department. They will gain experience assessing patients experiencing real-life emergencies. They will also gain experience performing EMS skills such as IVs, medication administration, performing 12 lead ECGs, and airway management skills with a focus on endotracheal intubation. Students will also be scheduled in the surgical department. During the ride-along experience, students will become acquainted with the operations of an ambulance service. Students will focus on how they can be an effective team member of an ambulance crew and gain needed experience in assessment and management of medical emergencies in the pre-hospital setting.

The clinical and field internship experience allows the students to integrate knowledge and skills from the classroom setting into actual patient care in the hospital and field domain. Students are expected to complete their clinical (in in-hospital) experience in anticipation of starting their internship. Students will continue to interact with hospital staff in clinical areas such as Pediatrics, OBGYN, ICU, CICU, Behavioral, OR, and ER. Students also continue ambulance ride-along with an area of focus specific of advance life support.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the health care system
2. Interpret the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of paramedics
4. Perform the roles and responsibilities of a paramedic pertaining to personal safety and wellness, and to the safety of others
5. Perform the duties of a paramedic with regard for medicolegal and ethical issues, including functioning under medical direction and within the scope of practice
6. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
7. Recognize the need for and implementation of immediate, life-saving interventions to manage a patient's airway, breathing, and circulation.
8. Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries
9. Apply principles of emergency medical services operations; considerations; multiple casualty incidents; gaining access to and extricating patients; hazardous materials incidents; and responding to situations involving weapons of mass destruction
10. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting
11. Analyze the principles of medication administration for CCTPs, including: patient and medication selection; predicted and desired responses; absorption and elimination principles; side effects or adverse medication reactions; and transport and monitoring considerations
12. Summarize an overview of airway management medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions

13. Summarize an overview of cardiovascular system medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions

14. Explain the overall principles of laboratory analysis

15. Reconstruct the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care

16. Demonstrate proficiency at all skills within the paramedic scope of practice

Additional instructional resources needed (including library materials; special equipment; and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources; instructional material; and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW____ DROPPED____ MAJOR REVISION X___ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This course is found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant.

Please provide the following information:
College: **MSU – Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 241 (FLOCKED)

Course Title: Pediatric Advanced Life Support (PALS)
Credits: 1

Required by: AEMT course, Paramedic course, A.S. in Emergency Health Sciences and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **1 credit**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 15 contact hours
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
PALS is a classroom-oriented, video-based, instructor-led course that uses a series of simulated pediatric emergencies to reinforce the important concepts of a systematic approach to pediatric assessment, basic life support, PALS treatment algorithms, effective resuscitation and team dynamics. The goal of the PALS Course is to improve the quality of care provided to seriously ill or injured children, resulting in improved outcomes.

Course Outcome Objectives:
1. Demonstrate the current sequences and techniques for CPR on a pediatric manikin
2. Demonstrate the ability to correctly identify and treat critical illnesses and injuries in pediatric patients
3. Demonstrate the ability to correctly identify basic EKG rhythms
4. Demonstrate knowledge of pediatric pharmacology, including doses and indications

5. Demonstrate the appropriate use of advanced airway procedures on a pediatric manikin
6. Demonstrate appropriate use of a manual defibrillator on a pediatric manikin
7. Demonstrate team leadership skills and good team dynamics

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

Adult and infant manikins, student manuals, barrier devices, BVMs, AHA DVD, instructor book. All of these items have been funded through the TAACCCT4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW____ DROPPED____ MAJOR REVISION X___ FOR INFORMATION ONLY ____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This course is found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant.

Please provide the following information:
College: **MSU – Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 240 (FLOCKED)

Course Title: Pre-Hospital Trauma Life Support (PHTLS)
Credits: 2

Required by: AEMT course, Paramedic course, A.S. in Emergency Health Sciences and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **2 credits**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 30 contact hours
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course improves the quality of trauma care and decreases mortality. The program is based on a prehospital trauma care philosophy, stressing the treatment of the multi-system trauma patient as a unique entity with specific needs. This may require an approach to the trauma patient that varies from traditional treatment modalities. PHTLS promotes critical thinking as the foundation for providing quality care. It is based on the belief that, given a good fund of knowledge and key principles, EMS practitioners are capable of making reasoned decisions regarding patient care.

Course Outcome Objectives:
1. Understand the principles of significant mechanisms of injury
2. Demonstrate the ability to perform a rapid trauma assessment

3. Demonstrate knowledge of traumatic pathologies
4. Demonstrate competence in managing patient's with multisystem traumatic injuries
5. Identify the signs and symptoms of shock and the need for rapid packaging and transport
6. Identify the importance of ALS intercept

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

Adult and infant manikins, student manuals, barrier devices, BVMs, moulage kit, backboards, instructor book. All of these items have been funded through the TAACCCT4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: **MSU-Northern:** College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 4XX

Course Title: Paramedic with Critical Care Prep Field Internship
Credits: 6

Required by: Paramedic course and BS in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab:
Gradable Lab: 6 clinical credits
Contact hours lecture:
Contact hours lab: 270 clinical hours as ambulance rides

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course is the final stage of the paramedic technical core classes; with 360 minimum numbers of hours. This course continues with the application of advanced life support skills and assessment techniques (phase II); transitioning into team leadership (phase III) as a paramedic. Students will be scheduled for shifts on the ambulance. They will gain experience assessing patients experiencing real-life emergencies. They will also gain experience performing EMS skills such as IVs; medication administration; performing 12 lead ECGs; and airway management skills with a focus on endotracheal intubation. During the ride-along experience; students will become acquainted with the operations of an ambulance service. Students will focus on how they can be an effective team member of an ambulance crew and gain needed experience in assessment and management of medical emergencies in the pre-hospital setting.

The field internship experience allows the students to integrate knowledge and skills from the classroom setting into actual patient care in the field. Students are expected to complete their ambulance internship by the end of the summer semester. Students will continue ambulance ride-alongs with an area of focus specific of advance life support and transitioning into the team leader role directing and managing patient care.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the health care system
2. Interpret the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of paramedics
4. Perform the roles and responsibilities of a paramedic pertaining to personal safety and wellness, and to the safety of others
5. Perform the duties of a paramedic with regard for medicolegal and ethical issues, including functioning under medical direction and within the scope of practice
6. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
7. Recognize the need for and implementation of immediate, life-saving interventions to manage a patient's airway, breathing, and circulation.
8. Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries
9. Apply principles of emergency medical services operations; considerations; multiple casualty incidents; gaining access to and extricating patients; hazardous materials incidents; and responding to situations involving weapons of mass destruction
10. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting
11. Analyze the principles of medication administration for CCTPs, including: patient and medication selection; predicted and desired responses; absorption and elimination principles; side effects or adverse medication reactions; and transport and monitoring considerations
12. Summarize an overview of airway management medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions

13. Summarize an overview of cardiovascular system medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions
14. Explain the overall principles of laboratory analysis
15. Reconstruct the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care
16. Demonstrate proficiency at all skills within the paramedic scope of practice

Additional instructional resources needed (including library materials; special equipment; and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED_____ MAJOR REVISION_____ FOR INFORMATION ONLY_____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date_____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:

College: **MSU-Northern:** College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program,
Date: 1/20/2017
Course Prefix & No.: ECP 2XX

Course Title: Foundations of Advanced Emergency Medical Technician (AEMT)
Credits: 6

Required by: AEMT course, Paramedic course, A.S. in Emergency Health Sciences and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **6 credits**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 90 contact hours
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
The Advanced Emergency Medical Technician (AEMT) provides basic and advanced life support care to critically-ill or injured patients. AEMTs work directly with other AEMTs and EMTs to provide an appropriate-level of care, in conjunction with a paramedic to provide advanced life support. This course will introduce students to the foundations of providing high-quality, advanced emergency medical care. This course will cover areas, such as: medical ethics; legal responsibilities; documentation; ambulance operations; anatomy and physiology; pharmacology; IV access; patient assessment; airway managements; the etiologies behind shock; CPR; and medical emergencies, including assessment and management of the disease process. AEMTs learn to: manage an airway using artificial devices; assess the severity of illness or injury; manage wounds and bleeding; immobilize fractures; perform CPR; initiate IVs; utilized an automated

defibrillator; and a host of other procedures. Recent curriculum changes at the national and state-level allow AEMTs to administer some medications.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the health care system
2. Describe the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of AEMTs
4. Identify the roles and responsibilities of an AEMT pertaining to personal safety, wellness, and to the safety of others
5. Perform the duties of an AEMT with regard for medicolegal and ethical issues, including functioning under medical direction and within the scope of practice.
6. Apply the principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
7. Identify the need for and implementation of immediately life-saving interventions to manage a patient's airway, breathing, and circulation

*** See attachment for other learning objectives***

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED_____ MAJOR REVISION_____ FOR INFORMATION ONLY_____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date_____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: **MSU-Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 2XX

Course Title: Foundations of Advanced Emergency Medical Technician - LAB
Credits: 1

Required by: AEMT course, Paramedic course, A.S. in Emergency Health Sciences and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab:
Gradable Lab: 1 credit
Contact hours lecture:
Contact hours lab: 30 contact hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
The Advanced Emergency Medical Technician (AEMT) provides basic and advanced life support care to critically ill or injured patients. AEMTs work directly with another EMT and AEMT to provide this level of care and in conjunction with a paramedic to provide advanced life support. This course will introduce students to the practicum of foundations of providing high-quality, advanced emergency medical care. This lab will cover areas of practical medical ethics, legal responsibilities, documentation, and ambulance operations. It will also cover: assessment and application of anatomy and physiology; pharmacology; IV access; patient assessment; and airway managements. This lab will then cover the etiologies behind shock, CPR, and medical emergencies, including assessment and management of the disease process. AEMTs learn to: manage an airway; physically practice using artificial devices; assess the severity of illness or injury; manage wounds

and bleeding; immobilize fractures; perform CPR; initiate IVs; utilized an automated defibrillator and a host of other procedures. Recent curriculum changes at the national and state-level allow AEMTs to administer some medications.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the appropriate use of airway adjuncts
2. Describe the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate proficient use of CPR skills
4. Perform the roles and responsibilities of an AEMT pertaining to personal safety and wellness, and to the safety of others
5. Perform the skills of an AEMT with regard for medicolegal and ethical issues, including functioning under medical direction and within the scope of practice
6. Perform assessment skills, including: principles of anatomy; physiology; pathophysiology; life-span development; and therapeutic communications to the assessment and management of patients
7. Identify the need for and implementation of immediate, life-saving interventions to manage a patient's airway, breathing, and circulation

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

A.s COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: **MSU-Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 2XX

Course Title: Applications of Advanced Emergency Medical Technician (AEMT)
Credits: 6

Required by: AEMT course, Paramedic course, A.S. in Emergency Health Sciences and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **6 credits**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 90 contact hours
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course is primarily designed for Ambulance/EMS personnel and is a continuation of certification training following the EMT course. It is also appropriate for anyone who may be required to respond to emergencies and has access to emergency care equipment. This course will introduce students to the applications of providing high-quality advanced emergency medical care. This course will cover: the etiologies, recognition, and treatment of traumatic injuries such as bleeding, soft tissue, head, neck and spine; areas of special populations such as obstetrics, neonates, pediatrics, and geriatrics; and EMS systems and ambulance operations. This course is required, in addition to Foundations of Advanced Emergency Medical Technician, prior to sitting for the National Registry or State Licensing Exam. This Montana Board of Medical Examiners-certified course combines lecture, skill demonstration, and skill practice to provide well-rounded

education. Students who successfully complete this course and successfully pass the National Registry examinations will be awarded certification, valid for a three years period. This certification is the standard in Montana and many other states. Prerequisites: Previous CPR or First Aid is recommended, but not required. Previous EMT certification and having passed Foundations of Advanced Emergency Medical Care is required.

Course Outcome Objectives:

Upon completion of this course, students should be able to:

1. Perform an assessment on victims of sudden medical illness
2. Demonstrate treatment skills on victims of traumatic injuries
3. Demonstrate appropriate care for patients suffering from myocardial infarction
4. Perform the duties of an AEMT with regard to medicolegal and ethical issues, including functioning under medical direction and within the scope of practice
5. Utilize the principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
6. Identify the need for and perform of immediate life-saving interventions to manage a patient's airway, breathing, and circulation
7. Perform assessment and management of patients of all ages with a variety of complaints, medical conditions, and traumatic injuries
8. Utilize principles of: emergency medical services operations; considerations; multiple casualty incidents; gaining access to and the extrication of patients, hazardous materials incidents; and responding to situations involving weapons of mass destruction

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: **MSU-Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 2XX

Course Title: Applications of Advanced Emergency Medical Technician-LAB
Credits: 1

Required by: AEMT course, Paramedic course, A.S. in Emergency Health Sciences and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab:
Gradable Lab: 1 credit
Contact hours lecture:
Contact hours lab: 30 contact hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This lab is taken in conjunction with Applications of Emergency Medical Technician and is primarily designed for Ambulance/EMS personnel. It is a continuation of certification training following the EMT course. It is also appropriate for anyone who may be required to respond to emergencies and has access to emergency care equipment. This lab will introduce students to the applications and practicum of providing high-quality, advanced emergency medical care. This lab will cover the skills required to assess and manage etiologies, and to recognize and treat traumatic injuries, such as bleeding, soft tissue, head, neck and spine. It will also cover assessment for areas of special populations such as obstetrics, neonates, pediatrics, and geriatrics. This course will cover EMS systems and ambulance operations. This class is required, in addition to Applications of Advanced Emergency Medical Technician, prior to sitting for the National Registry or state

licensing exam. This Montana Board of Medical Examiners-certified course combines lecture, skill demonstration, and skill practice to provide well-rounded education. Successful completion of this course and successfully passing the National Registry examinations merits certification, valid for a period of three years. This certification is the standard in Montana and many other states. **Prerequisites**: Previous CPR or First Aid is recommended, but not required. Previous EMT certification and having passed Foundations of Advanced Emergency Medical Care is required.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Apply assessment skills to victims of sudden medical illness
2. Apply and become proficient with treatment skills to victims of traumatic injuries
3. Demonstrate appropriate assessment skills for patients suffering from myocardial infarction
4. Perform the skills of an AEMT with regard to medical and traumatic issues, including, functioning under medical direction and within the scope of practice
5. Apply assessment skill principles of anatomy and physiology; pathophysiology; life-span development; and therapeutic communications to the assessment and management of patients
6. Identify the need for and proficiently perform immediate life-saving interventions to manage a patient's airway, breathing, and circulation
7. Perform assessment and management of patients of all ages with a variety of complaints; medical conditions and traumatic injuries
8. Proficiently apply practical skills and principles of emergency medical services operations; considerations; multiple casualty incidents; gaining access to and extricating patients; hazardous materials incidents; and responding to situations involving weapons of mass destruction

Additional instructional resources needed (including library materials; special equipment; and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources; instructional material; and initial faculty are provided by the TAACCCT 4 grant.

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: **MSU-Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 2XX

Course Title: Advanced Emergency Medical Technician-Clinical I
Credits: 1

Required by: AEMT course, Paramedic course, A.S. in Emergency Health Sciences and B.S. and Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab:
Gradable Lab: 1 clinical credit
Contact hours lecture:
Contact hours lab: 45 contact hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course introduces Advanced Emergency Medical Technician (AEMT) students to the clinical arena and starts their ambulance ride-along experience, during which they will become acquainted with the operations of an ambulance service. Students will be scheduled for shifts in the emergency department wherein they will gain experience assessing patients experiencing real-life emergencies. They will also gain experience performing EMS skills, such as: IV insertions, medication administration, obtaining 12 lead ECGs, and airway management. Students will focus on how they can be an effective team member of an ambulance crew and acquire needed experience in assessment and management of medical emergencies in the pre-hospital setting. Students will also be scheduled in the laboratory department. **NO PREREQUISITES.**

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the health care system
2. Describe the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of AEMTs
4. Perform the roles and responsibilities of an AEMT pertaining to personal safety and wellness, and to the safety of others
5. Perform the duties of an AEMT with regard for medicolegal and ethical issues, including Functioning under medical direction and within the scope of practice
6. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
7. Identify the need for and be able to perform immediate, life-saving interventions to manage a patient's airway, breathing, and circulation
8. Perform assessment and management of patients of all ages with a variety of complaints, medical conditions and traumatic injuries
9. Apply principles of emergency medical services operations, considerations, and multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction
10. Demonstrate proficiency of all skills within the AEMT scope of practice

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date_____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:

College: **MSU-Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 2XX

Course Title: Advanced Emergency Medical Technician-Clinical II
Credits: 2

Required by: AEMT course, Paramedic course, A.S. in Emergency Health Science and B.S. in Emergency Health Science

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab:
Gradable Lab: 2 clinical credits
Contact hours lecture:
Contact hours lab: 90 contact hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course introduces AEMT students to the clinical arena and starts their ambulance ride-along experience, during which, they will become acquainted with the operations of an ambulance service. Students will be scheduled for shifts in the emergency department. They will gain experience assessing patients experiencing real-life emergencies. They will also gain experience performing EMS skills, such as, IVs, medication administration, obtaining 12 lead ECGs, and airway management. Students will also be scheduled in the laboratory department. Students will focus on how they can be an effective team member of an ambulance crew and gain needed experience in the assessment and management of medical emergencies in the pre-hospital setting.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the health care system
2. Describe the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of AEMTs
4. Perform the roles and responsibilities of an AEMT pertaining to personal safety and wellness, and to the safety of others
5. Perform the duties of an AEMT with regard for medicolegal and ethical issues, including Functioning under medical direction and within the scope of practice
6. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
7. Identify the need for and be able to perform immediate, life-saving interventions to manage a patient's airway, breathing, and circulation
8. Perform assessment and management of patients of all ages with a variety of complaints, medical conditions and traumatic injuries
9. Apply principles of emergency medical services operations, considerations, and multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction
10. Demonstrate proficiency of all skills within the AEMT scope of practice

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: **MSU-Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 2XX

Course Title: Advanced Emergency Medical Technician-Field Internship
Credits: 3

Required by: AEMT course, Paramedic course, A.S. in Emergency Health Science and B.S. in Emergency Health Science.

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab:
Gradable Lab: 3 clinical credits
Contact hours lecture:
Contact hours lab: 135 contact hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course is the final stage of the paramedic technical core classes, with 135 minimum number of hours. This course continues with the application of basic and advanced life support skills and assessment techniques (phase II), transitioning into team leadership (phase III) as an AEMT. Students will be scheduled for shifts on the ambulance.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the health care system

2. Describe the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of AEMTs
4. Perform the roles and responsibilities of an AEMT with regard to personal safety and wellness, as well as the safety of others
5. Perform the duties of an AEMT with regard for medical-legal and ethical issues, including Functioning under medical direction and within the scope of practice
6. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
7. Identify the need for and be able to perform immediate, life-saving interventions to manage a patient's airway, breathing, and circulation
8. Perform assessment and management of patients of all ages with a variety of complaints, medical conditions and traumatic injuries
9. Apply principles of emergency medical services operations, considerations, and multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction
10. Demonstrate proficiency of all skills within the AEMT scope of practice

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.
All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED_____ MAJOR REVISION_____ FOR INFORMATION ONLY _____

College CEASN_____ Program Area Emergency Medical Service (EMS)Date 1/20/2017__

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey. This course is designed to bridge the knowledge gap between 200 level paramedic courses at other Universities and 300 level paramedic with Critical Care Courses at MSU-Northern

Please provide the following information:
College: **MSU-Northern**: College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program,
Date: 1/20/2017
Course Prefix & No.: ECP 3XX

Course Title: Paramedic with Critical Care Prep Transition
Credits: 1-2

Required by:

Selective in:
Elective in: Paramedic certificate and Paramedic B.S. for transferring students only
General Education:

Lecture: **Variable 1-2 credits**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: **Variable (15-30 contact hours)**
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course is designed to address the disparities in the knowledge-base of paramedic students who are transferring into our program from other MSU campuses teaching 200-level paramedic courses and is only required for those students who are transferring to MSU-Northern Paramedic Program during the winter break. At the end of this self-study course, the paramedic student will have a consistent knowledge-base with the other students in the MSU–Northern Paramedic Program. This course provides information as it relates to patient etiologies for medical emergencies in and out of hospital setting in the areas of pathophysiology, pharmacology, and all skills covered in Paramedic I, Paramedic II, and Paramedic III. It will also cover: ethics; communication; airway; patient assessment; pulmonology; and cardiology. The assessment and management of these matters will be discussed and evaluated. This Montana Board of Medical

Examiners-certified course combines lecture, skill demonstration, and skill practice to provide well-rounded education. Successful completion of this and other Paramedic Programs courses, and successfully passing the National Registry examinations merits certification, valid for a period of two years. This certification is the standard in Montana and many other states. Current CPR and EMT certification is required. Approval from EMS coordinator is required prior to enrollment.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Describe the roles of EMS in the health care system
2. Interpret the essential elements for the safe and efficient response to the scene of a medical emergency
3. Demonstrate the professional attributes expected of paramedics
4. Perform the roles and responsibilities of a paramedic pertaining to personal safety and wellness, and to the safety of others
5. Perform the duties of a paramedic with regard for medicolegal and ethical issues, including functioning under medical direction and within the scope of practice
6. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients
7. Recognize the need for and implementation of immediate, life-saving interventions to manage a patient's airway, breathing, and circulation
8. Assess and manage patients of all ages with a variety of complaints, medical conditions and traumatic injuries
9. Apply principles of emergency medical services operations; considerations; multiple casualty incidents; gaining access to and extricating patients; hazardous materials incidents; and responding to situations involving weapons of mass destruction
10. Compare the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting
11. Analyze the principles of medication administration for CCTPs, including: patient and medication selection; predicted and desired responses; absorption and elimination principles; side effects or adverse medication reactions; and transport and monitoring considerations
12. Summarize an overview of airway management medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions

13. Summarize an overview of cardiovascular system medications used during critical care transport, including: indications; contraindications; dosages; side effects; and interactions

14. Explain the overall principles of laboratory analysis

15. Reconstruct the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care

Additional instructional resources needed (including library materials; special equipment; and facilities). Please note: approval does not indicate support for new faculty or additional resources.

All additional resources; instructional material; and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED_____ MAJOR REVISION_____ FOR INFORMATION ONLY_____

College CEASN Program Area Emergency Medical Service (EMS) Date 1/20/2017
Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant.

Please provide the following information:

College: **MSU – Northern:** College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 1xx

Course Title: Basic Life Support for Health Care Providers (CPR)
Credits: 1

Required by: Nursing, EMT course, AEMT course, Paramedic course, AS in Emergency Health Sciences, BS in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **1 credit**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: **15 contact hours**
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
The Basic Life Support (BLS) Healthcare Provider Course teaches the skills of CPR for victims of all ages (including ventilation with a barrier device, a bag-valve-mask device, and oxygen), use of an Automatic External Defibrillator (AED), and relief of a Foreign Body Airway Obstruction. The course is designed for healthcare providers who care for patients in a wide variety of settings, both in and out of hospital.

Course Outcome Objectives:

1. Demonstrate the current sequences and techniques for CPR on an adult manikin
2. Demonstrate the current sequences and techniques for CPR on a child manikin
3. Demonstrate the current sequences and techniques for CPR on an infant manikin
4. Demonstrate the appropriate usage of a mouth barrier device and BAG-Valve-Mask (BVM) on an adult manikin
5. Identify the signs and symptoms of a heart attack and a stroke victim
6. Demonstrate use of an Automated External Defibrillator (AED)

7. Demonstrate relief of Foreign Body Airway Obstruction for adult, child, and infant victims

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

Adult and infant manikins, student manuals, barrier devices, BVMs, AHA DVD, instructor book. All of these items have been funded through the TAACCCT4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW____ DROPPED____ MAJOR REVISION _X__ FOR INFORMATION ONLY ____

College COEASN Program Area Emergency Medical Services (EMS) Date 1/20/2017

Submitter_____ Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This course is found under the Emergency Care Provder state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:
College: **MSU-Northern**, College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 1/20/2017
Course Prefix & No.: ECP 120 (FLOCKED)

Course Title: Emergency Medical Responder (EMR)
Credits: 4

Required by: EMT course, AEMT course, Paramedic course, A.S. in Emergency Health Sciences and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **4 credits**
Lecture/Lab:

Gradable Lab:
Contact hours lecture: 60 contact hours
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):

The primary focus of the Emergency Medical Responder is to initiate immediate lifesaving care to critical patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide lifesaving interventions while awaiting additional EMS response and to assist higher level personnel at the scene and during transport. Emergency Medical Responders function as part of a comprehensive EMS response, under medical oversight. Emergency Medical Responders perform basic interventions with minimal equipment. This course will cover the etiologies, recognition, and treatment of traumatic injuries, medical emergencies, and special populations such as pediatrics and geriatrics. This

Montana Board of Medical Examiners certified-course combines lecture with an integrated lab for skill practice and competency demonstration. Previous CPR or First Aid is recommended.

Successful completion of this course is required to sit for the state licensing exam or National Registry Certification exam. Once approved to enter the certification process, all other aspects of authorization and certification are the responsibility of the student. Note: students must be 18 years of age to take the certification examination.

NO PREREQUISITES

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Understand, describe, and demonstrate the skills required of a first responder as required by the National Registry of EMTs (NREMT).
2. Possess the knowledge, skills and abilities to carry out basic life support at the emergency medical responder level to treat bleeding, shock, musculoskeletal and soft tissue injuries.
3. Perform the duties of an EMR with regard for medicolegal and ethical issues, including functioning under medical direction and within the scope of practice.
4. Develop an understanding of the relationship between the various components within the emergency medical services operation.
5. Learn common modifications to emergency medical responder skills to improvise and adapt for immediate life-saving situations.
6. Perform the roles and responsibilities of an EMR pertaining to personal safety and wellness, and to the safety of others.
7. Perform assessment and management of patients of all ages with a variety of complaints, medical conditions and traumatic injuries.

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.
All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.

Revised: 1/20/2017 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College MSU - NORTHERN Program Area Emergency Medical Service (EMS) Date 9-25-15

Submitter_____ Dean _____ Date_____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
This is a new course not found under the ECP state course list. This course is required to meet the goals of the TAACCCT4 Grant by addressing the needs of the community as identified by the needs assessment survey.

Please provide the following information:

College: **MSU-Northern**, College of Education, Arts & Sciences, and Nursing
Program Area: EMS Program
Date: 05-11-2016
Course Prefix & No.: ECP 2XX

Course Title: 12 Lead and Capnography for EMS
Credits: 1

Required by: AEMT AS, AEMT Course, Paramedic Course, and B.S. in Emergency Health Sciences

Selective in:
Elective in:
General Education:

Lecture: **1 credit**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: **15 contact hours**
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course provides a base of knowledge on the 12-leads and addresses how recognize acute coronary syndrome in an out-of-hospital setting. It will also cover: identifying the relationship of ECG to coronary artery anatomy; recognizing the S-T segment of the hyper-acute phase of an MI; and describe identifying features of the various rhythms (Tachycardia and Bradycardia). At the conclusion of this course, students will be able to demonstrate the ability to interpret ECG strips, as well as understand the clinical role of capnography.

Course Outcome Objectives:

Upon completion of this course students should be able to:

1. Understand key changes in science from the 2010 to the 2015 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care
2. Understand STEMI Systems of Care and STEMI recognition
3. Know the basics of acute coronary syndromes (ACS) and triage of STEMI patients
4. Obtain high-quality, 12-lead ECGs readings
5. Identify12-lead findings that mimic STEMI
6. Recognize coronary anatomy, as it relates to 12-lead ECGs
7. Discern the indications for activating a Heart Alert System
8. Identify components of capnography waveform and the physiology behind the waveform
9. Understand capnography as an adjunct to assess airway patency and effectiveness of perfusion and ventilation
10. Understand how capnography promotes patient safety through dynamic monitoring instead of static monitoring

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.
All additional resources, instructional material, and initial faculty are provided by the TAACCCT 4 grant.