ACADEMIC SENATE PROPOSAL TRACKING SHEET

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

Proposal # 15-22	Title: Paramedic Course Completion

(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						
General Education Committee (if applicable)		☐ Approved ☐ Disapproved						
Curriculum Committee (if applicable)		☐ Approved ☐ Disapproved						
Academic Senate		☐ Approved ☐ Disapproved						
Full Faculty (if necessary)		☐ Approved ☐ Disapproved						
Provost		☐ Approved ☐ Disapproved						
Chancellor		☐ Approved ☐ Disapproved						
MSU		☐ Approved ☐ Disapproved						
BOR		☐ 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.**

CEASN PROPOSAL TRACKING SHEET
(Document to Be Originated By CEASN Secretary)

1. Submit all proposals (using the appropriate Academic Senate program/degree and/or course revision forms) to the CEASN Administrative Assistant.
2. The CEASN Administrative Assistant forwards them to the appropriate CEASN Committee.

Proposal Number: 2015-2016 # 8	Title: Paramedic Course Completion

Date

Received by CEASN Administrative Assistant 10.16.15

Forwarded to CEASN College Meeting 10.16.15 Approved ✓ Disapproved ____

Chair Signature ____ Date

Returned to CEASN Administrative Assistant 11.13.15

Forwarded to Dean for Signatures 11.13.15 Carol A. Refshaud 11-13-15

Dean Signature

Returned to CEASN Administrative Assistant 11.13.15

Forwarded to Professional Education Unit 12.1.15 ~~Approved~~ ____ ~~Disapproved~~ ____

~~Signature~~ ~~Date~~

Returned to CEASN Administrative Assistant 12.1.15

Forwarded to ACAD Senate ____

CEASN PROPOSAL TRACKING SHEET
(Document to Be Originated By CEASN Secretary)

1. Submit all proposals (using the appropriate Academic Senate program/degree and/or course revision forms) to the CEASN Administrative Assistant.
2. The CEASN Administrative Assistant forwards them to the appropriate CEASN Committee.

Proposal Number: 2015-2016 # 8	Title: Paramedic Certificate

Date

Received by CEASN Administrative Assistant 9.29.15 return to NRSG for improvements-

Forwarded to CEASN College Meeting 9.29.15 Approved _____ Disapproved _____

_____
Chair Signature Date

Returned to CEASN Administrative Assistant _____

Forwarded to Dean for Signatures _____

_____
Dean Signature

Returned to CEASN Administrative Assistant _____

Forwarded to Professional Education Unit _____ Approved _____ Disapproved _____

_____
Signature Date

Returned to CEASN Administrative Assistant _____

Forwarded to ACAD Senate _____

PROGRAM/DEGREE REVISION FORM

NEW_X_ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN **Program Area** EMS – Allied Health **Date** 12/2/2015

Submitter [signature] **Dean** [signature] **Date** 12-2-15

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 Paramedic Course Completion

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
		EMT Course Competition	Pre	Req
BIOH	201	A&P I w/ Lab	Pre/Co	Req
BIOH	211	A&P II w/ Lab	Pre/Co	Req
ECP	3xx	Paramedic w/ CC Prep I		4
ECP	3xx	Paramedic w/ CC Prep II		4
ECP	3xx	Paramedic w/ CC Prep III		4
ECP	3xx	Paramedic w/ CC Prep Lab I/II/III		3
ECP	4xx	Paramedic w/ CC Prep Clinical I		3
ECP	212	ACLS		2
ECP	3xx	Paramedic w/ CC Prep IV		4
ECP	3xx	Paramedic w/ CC Prep V		4
ECP	3xx	Paramedic w/ CC Prep Lab IV/V		3
ECP	4xx	Paramedic w/ CC Prep Clinical II		4
ECP	241	PALS		2
ECP	240	PHTLS		2
ECP	4xx	Paramedic w/ CC Prep Internship		6
		Total		46

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

COURSE REVISION FORM

NEW X DROPPED ____ MAJOR REVISION ____ FOR INFORMATION ONLY ____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015

Submitter Signature Dean Signature (indicates "college" level approval) Date 12-3-15

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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 131

Course Title: Emergency Medical Technician with clinical
Credits: 7

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

Lecture: **7 credits (120 contact hours)**
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 90 hours
Contact hours lab: 30 Lab Hours

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course is primarily designed entry level training for those who work on an ambulance. 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 Emergency Medical Care. This course will cover the etiologies, recognition, and treatment of traumatic injuries such as bleeding, soft tissue, head, neck and spine. This course will also cover areas of special populations such as obstetrics, neonates, pediatrics, and geriatrics. This course will also cover EMS systems and ambulance operations. This class is required 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 will-rounded education. Previous CPR or First Aid is recommended, but not required.

Successful completion of this course and successfully passing the National Registry examinations merits certification good for a period of three 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. 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 with regard to personal safety and wellness, as well as the safety of others.
5. Perform the duties of an EMT 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 perform immediately 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.

*** 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: 12/3/2015 T-4

COURSE REVISION FORM

NEW_X_ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015

Submitter Signature Dean Signature (indicates "college" level approval) Date 12-3-15

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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 3XX

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

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

Selective in:
Elective in:
General Education:

Lecture: 60
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 60
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 provides 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 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. 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 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 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. Utilize principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients.
7. Perform assessment and management of patients of all ages with a variety of complaints, medical conditions and traumatic injuries.
8. 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.
9. Identify the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
10. Identify 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.
11. Describe an overview of airway management medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
12. Describe an overview of cardiovascular system medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
13. Describe the overall principles of laboratory analysis.

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

*** 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: 12/2/2015 T-4

COURSE REVISION FORM

NEW_X_ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015

Submitter Signature Dean Signature (indicates "college" level approval) Date 12-3-15

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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 3XX

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

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

Selective in:
Elective in:
General Education:

Lecture: 60
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 60
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. 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 patient etiologies for medical emergencies.
2. Describe 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 with regard to personal safety and wellness, as well as 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. Identify the need for and perform immediately 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. Identify the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
9. Identify 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. Describe an overview of cardiovascular system medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
11. Identify the overall principles of laboratory analysis.
12. Discuss the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care.

*** 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.

COURSE REVISION FORM

NEW_X_ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015

Submitter Signature Dean Signature (indicates "college" level approval) Date 12-3-15

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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 3XX

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

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

Selective in:
Elective in:
General Education:

Lecture: 60
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 60
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 ECG interpretation. Advance cardiac life support algorithms will be detailed 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 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. 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 roles of EMS in early AMI 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. Identify 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. Identify the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
9. Identify 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. Describe an overview of airway management medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
11. Describe the overall principles of laboratory analysis.
12. Describe the step-by-step systematic approach that should be used when interpreting an ECG while providing critical care.

*** 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: 12/2/2015 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015

Submitter [signature] Dean [signature] Date 12-3-15
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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 3XX

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

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

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab: 60
Gradable Lab:
Contact hours lecture: 30 – 2 hours/week – 2 credit
Contact hours lab: 30 – 2 hours/week – 1 credit

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 setting 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 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 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 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. Identify 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 extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.
10. Describe the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
11. Describe 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. Identify an overview of airway management medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
13. Describe an overview of cardiovascular system medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
14. Identify the overall principles of laboratory analysis.

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

*** 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: 12/2/2015 T-4

COURSE REVISION FORM

NEW X DROPPED ____ MAJOR REVISION ____ FOR INFORMATION ONLY ____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015

Submitter Signature Dean Signature (indicates "college" level approval) Date 12-3-15

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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 3XX

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

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

Selective in:
Elective in:
General Education:

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

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 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. Describe 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. Identify 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 extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.
10. Describe an overview of airway management medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
11. Describe an overview of cardiovascular system medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
12. Identify the overall principles of laboratory analysis.

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

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

*** 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: 12/2/2015 T-4

COURSE REVISION FORM

NEW_X_ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/2/2015

Submitter Signature Dean Signature (indicates "college" level approval) Date 12-2-15

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
Program Area: EMS Program
Date: 12/2/2015
Course Prefix & No.: ECP 212

Course Title: Advanced Cardiac Life Support
Credits: 2

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

Selective in:
Elective in:
General Education:

Lecture: 2 credits (30 hours)
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 6 contact
Contact hours lab: 24 contact

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
In this classroom-based course, providers enhance their skills in treating adult victims of cardiac arrest or other cardiopulmonary emergencies, while earning their American Heart Association ACLS (AHA ACLS) for Healthcare Providers Course Completion Card. During this course students will learn ACLS algorithms, airway management, EKG rhythm interpretation, and cardiac pharmacology.

Course Outcome Objectives:

1. Demonstrate on an adult manikin the current sequences and techniques for CPR
2. Demonstrate the ability to correctly identify basic EKG rhythms.
3. Demonstrate knowledge of cardiac pharmacology including doses and indications.
4. Demonstrate on an adult manikin the appropriate usage advanced airway procedures.
5. Identify the signs and symptoms of heart attack and stroke

6.Demonstrate use of an manual defibrillator
7.Demonstrate team leadership skills

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: 12/2/2015 T-4

COURSE REVISION FORM

NEW X DROPPED ____ MAJOR REVISION ____ FOR INFORMATION ONLY ____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015
Submitter [signature] Dean [signature] Date 12-3-15
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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 3XX

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

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

Selective in:
Elective in:
General Education:

Lecture: 60
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 60
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
The purpose of the Paramedic IV course is to 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, 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. This course will then provide an introduction to the interfaculty transfer area. Additionally, the 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. 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. 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 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. Identify the need for and perform immediately 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. Describe the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
9. Describe 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. Describe an overview of airway management medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
11. Describe the CCTP's impact on preventing trauma deaths by performing proper prehospital care and transporting to the appropriate trauma center.
12. Describe the overall principles of laboratory analysis.

*** 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: 12/2/2015 T-4

COURSE REVISION FORM

NEW X DROPPED ____ MAJOR REVISION ____ FOR INFORMATION ONLY ____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015

Submitter [signature] Dean [signature] Date 12-3-15

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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 3XX

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

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

Selective in:
Elective in:
General Education:

Lecture: 60
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 60
Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
Paramedic V will complete the student's investigation into 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 utilized as the final. 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. 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, considerations, and multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.
8. Identify the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
9. Identify 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. Identify an overview of airway management medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
11. Identify the CCTP's impact on preventing trauma deaths by performing proper prehospital care and transporting to the appropriate trauma center.
12. Identify the overall principles of laboratory analysis.
13. Identify the differences in the general approach to critical care transport patient assessment between adult and pediatric patients.

*** 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: 12/2/2015 T-4

COURSE REVISION FORM

NEW X DROPPED ____ MAJOR REVISION ____ FOR INFORMATION ONLY ____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015

Submitter _____ Dean _____ Date 12-3-15
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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 3XX

Course Title: Paramedic Lab IV/V with Critical Care Prep
Credits: 3

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

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab: 60
Gradable Lab:
Contact hours lecture: 30 - 2 hours/week – 2 credit
Contact hours lab: 30 – 2 hours/week – 1 credit

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course is a continuation of Paramedic Lab I/II/III, 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. This course will also introduce and reinforce 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. 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 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 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. Identify 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 extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.
10. Describe the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
11. Identify 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. Identify an overview of airway management medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
13. Describe an overview of cardiovascular system medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.
14. Describe the overall principles of laboratory analysis.

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

*** 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: 12/2/2015 T-4

COURSE REVISION FORM

NEW_X_ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015

Submitter Signature Dean Signature (indicates "college" level approval) Date 12-3-15

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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 3XX

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

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

Selective in:
Elective in:
General Education:

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

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 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. Describe 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. Identify 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 extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.
10. Identify the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
11. Describe 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. Describe an overview of airway management medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.

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

14. Identify the overall principles of laboratory analysis.

15. Describe 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

*** 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: 12/2/2015 T-4

COURSE REVISION FORM

NEW X DROPPED ____ MAJOR REVISION ____ FOR INFORMATION ONLY ____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/2/2015

Submitter Signature Dean Signature (indicates "college" level approval) Date 12-2-15

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
Program Area: EMS Program
Date: 12/2/2015
Course Prefix & No.: ECP 241

Course Title: Pediatric Advanced Life Support
Credits: 2

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

Selective in:
Elective in:
General Education:

Lecture: 2 credits (30 hours)
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 6 contact
Contact hours lab: 24 contact

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This course is a classroom, 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 on a pediatric manikin the current sequences and techniques for CPR
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 on a pediatric manikin the appropriate usage advanced airway procedures.
6. Demonstrate appropriate use of an manual defibrillator on a pediatric
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: 12/2/2015 T-4

COURSE REVISION FORM

NEW_X_ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/2/2015

Submitter Signature Dean Signature (indicates "college" level approval) Date 12-2-15

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
Program Area: EMS Program
Date: 12/2/2015
Course Prefix & No.: ECP 240

Course Title: PHTLS (pre-hospital trauma life support)
Credits: 2

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

Selective in:
Elective in:
General Education:

Lecture: 2 credits (30 hours)
Lecture/Lab:
Gradable Lab:
Contact hours lecture: 6 contact
Contact hours lab: 24 contact

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):
This courses improves the quality of trauma care in your area and decrease 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: 12/2/2015 T-4

COURSE REVISION FORM

NEW__X__ DROPPED____ MAJOR REVISION____ FOR INFORMATION ONLY____

College CEASN Program Area Emergency Medical Service (EMS) Date 12/3/2015

Submitter Signature Dean Signature (indicates "college" level approval) Date 12-3-15

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 that were identified during the needs assessment survey.

Please provide the following information:
College: MSU-Northern
Program Area: EMS Program
Date: 12/3/2015
Course Prefix & No.: ECP 4XX

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

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

Selective in:
Elective in:
General Education:

Lecture:
Lecture/Lab: 270 ambulance ride hours
Gradable Lab:
Contact hours lecture:
Contact hours lab:

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. Describe 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. Identify 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 extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.
10. Identify the advantages and disadvantages of prehospital and in-hospital assessment models when used in the critical care transport setting.
11. Describe 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. Describe an overview of airway management medications used during critical care transport, including indications, contraindications, dosages, side effects, and interactions.

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

14. Describe the overall principles of laboratory analysis.

15. Demonstrate 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

*** 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: 12/2/2015 T-4

Montana Board of Regents

ACADEMIC PROPOSAL REQUEST FORM

Item Number: XXX-XXXX+XXXXX Meeting Date: _____

Institution: MSU – Northern: CEASN CIP Code: _____

Program Title: Emergency Medical Service (EMS) Program – Paramedic Course Completion

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 the Academic, Research and Student Affairs Handbook.

___ **A. Notifications:**

Notifications are announcements conveyed to the Board of Regents at the next regular meeting.

___ **1a. Placing a program into moratorium** (Document steps taken to notify students, faculty, and other constituents and include this information on checklist at time of termination if not reinstated)

___ **1b. Withdrawing a program from moratorium**

___ **2. Intent to terminate an existing major, minor, option or certificate – Step 1** (Phase I Program Termination Checklist)

___ **3. Campus Certificates, CAS/AAS-Adding, re-titling, terminating or revising a campus certificate of 29 credits or less**

___ **4. BAS/AA/AS Area of Study**

___ **B. Level I:**

Level I proposals are those that may be approved by the Commissioner of Higher Education. The approval of such proposals will be conveyed to the Board of Regents at the next regular meeting of the Board.

___ **1. Re-titling an existing major, minor, option or certificate**

___ **2. Adding a new minor or certificate where there is a major or an option in a major** (Curriculum Proposal Form)

___ **3. Revising a program** (Curriculum Proposal Form)

___ **4. Distance or online delivery of an existing degree or certificate program**

___ **5. Terminating an existing major, minor, option or certificate – Step 2** (Completed Program Termination Checklist)

___ **Temporary Certificate or AAS Degree Program**

Approval for programs under this provision will be limited to two years. Continuation of a program beyond the two years will require the proposal to go through the normal Level II Proposal approval process.

Montana Board of Regents
ACADEMIC PROPOSAL REQUEST FORM

___ **C. Level I with Level II Documentation:**

This type of proposal may go to the Board as a Level I item if all Chief Academic Officers are in agreement. If consensus among the Chief Academic Officers is not reached, however, the item will go to the Board as a Level II request.

___ **1. Adding an option within an existing major or degree** (Curriculum Proposal Form)

___ **2. Consolidating existing programs and/or degrees** (Curriculum Proposal Form)

___ **D. Level II:**

Level II proposals require approval of the Board of Regents. These requests will go to the Board in a two-meeting format, the first being as informational and the second as action.

___ **1. Re-titling a degree (ex. From B.A. to B.F.A)**

X **2. Adding a new minor or certificate where there is no major or option in a major** (Curriculum Proposal Form)

___ **3. Establishing a new degree or adding a major or option to an existing degree** (Curriculum Proposal Form)

___ **4. Forming, eliminating or consolidating a college, division, school, department, institute, bureau, center, station, laboratory or similar unit** (Curriculum Proposal Form or Center Proposal Form, except when eliminating or consolidating)

___ **5. Re-titling a college, division, school, department, institute, bureau, center, station, laboratory or similar unit**

Specify Request:

Request to form a Paramedic Course completion. This will include Basic Life Support for Healthcare Providers, Advanced Cardiac Life Support, Pediatric Advanced Life support, as well as Paramedic training. This will allow students to quickly become workforce ready with the appropriate certifications and qualifications required to work in the emergency medical services field.

Needs assessments were completed 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, and other health care providers. The surveys revealed that all EMS agencies in 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. Northern has received a state grant to meet the needs of the community and work force. This program has been identified as a top priority to meet those needs by

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providing local, top quality EMS initial, ongoing, and continuing training for Havre, Hill county, and the surrounding communities.

Revised 12/3/2015

Montana Board of Regents
CURRICULUM PROPOSAL FORM

Paramedic Course Completion

1. **Overview** -This is a request to establish a Paramedic Course Completion. The EMS program will offer Basic Life Support for Healthcare Providers as well as Paramedic course training. This will also include Advanced Cardiac Life Support and Pediatric Advanced Life Support. The program creation is funded through a grant to expand the Allied Health courses offered to meet the needs of the community and region. A needs assessment has been completed and EMS has been identified as a top priority for this grant. This program will provide much needed local resources and training for initial certification to get work force ready adults licensed and qualified to work in the EMS field. This program will also provide upgrade training and advancement opportunities to those who are currently in the field working. Once individuals are licensed they are required to receive ongoing training and continuing education to relicense and this program will address those needs as well.

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

   This course completion will include courses which will get individuals qualified for positions quickly for the paramedic level of EMS care. These course are required for the Emergency Health Science B.S.

3. **Need**

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

   Needs assessments were completed as a requirement of the TAACCCT4 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, and other health care providers. The surveys revealed that all EMS agencies in 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.

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The demand for this program may exceed these number and we may offer certain course more often than listed.

4. 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. 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 believes 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 EMS 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.

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 top EMS training program in the state and country by producing highly trained and competent

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student who are successful and achieving national accreditation.

5. 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 purpose of the Paramedic I course is to provides 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 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. EMT and BLS certificates and instructors permission are required prior to taking this class. A&P 1&2 are pre or co-requisites.

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

According to the TAACCCT4 grant all courses must be approved and running for Fall semester of 2017. We would like to begin offering EMT and EMR courses for 10-12 students in Spring of 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 to demonstrate success on all levels to the TAACCT 4 grant prior to their deadline of Fall 2017.

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 require one FTE for the first EMT course and continuing of program development. This position will be funded through the TAACCCT4 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 begin 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 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.

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Training equipment for lab and skills development. All these items are initially funded through the TAACCCT4 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 measure 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 provide. We will also continuously perform needs assessment of the communities and surrounding agencies to ensure we are meeting the purpose of the TAACCCT4 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.

8. **Process Leading to Submission**
   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 TAACCCT4 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 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 TAACCCT4 grant as funds become available.