

# MichiganTech

## — Course Add Proposal — PLEASE COMPLETE THIS FORM IN RED

A guide for completing this form is located at [www.admin.mtu.edu/em/faculty/courses/proposal\\_guide.php](http://www.admin.mtu.edu/em/faculty/courses/proposal_guide.php)

### 1) Course Information

Is this a half-semester course proposal?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

Course Prefix/Number (i.e. MEEM 2110): EH4710

Course Title (abbreviated; used on transcript - Up to 30 characters including spaces)

Stress Physiology

Alternative Title for Catalog (Up to 100 characters including spaces)

Stress Physiology

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### 2) Credits

Number of credits assigned to this course 2

OR

Range of credits if variable  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

Lecture

Recitation

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)

5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY**? (grade of S or E)  Yes  No

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6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

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7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s): N/A _____ _____
--

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s): 1 BL2020 _____ <input checked="" type="checkbox"/> And or <input type="checkbox"/> Or 2 BL2021 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 3 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____
---

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s): N/A _____ _____ _____
--

**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

This course focuses on stress physiology in humans. Topics include neural and hormonal responses to mental stress, interactions between physical and mental stress, bidirectional relations between stress and disease, and health disparities associated with stress.

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**9) Registration Restrictions**

- If permission is **always required** for registration purposes (a student cannot enter the course without department or instructor signature), please select the appropriate permission.

**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR** their **Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)
_____
-OR-
Colleges/Schools who MAY enroll (INCLUDE)
_____

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)
_____
-OR-
Majors that MAY enroll (INCLUDE)
_____
_____

-- Restrictions continued on next page --



- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)
FR, SO <hr style="width: 80%; margin: 0 auto;"/>
-OR-
Class of students who MAY enroll (INCLUDE)
<hr style="width: 80%; margin: 0 auto;"/>

**10) Semester(s) Offered**

Fall     
  Spring     
  Summer     
 (Check all that apply)

**OR**     On Demand

If offered in a specific semester, will the course be offered only in alternate years?     Yes     No

If yes, what will be the starting academic year? (i.e. 2008-09 or 2009-10) \_\_\_\_\_

**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the **New Distribution List Proposal** form in your department's binder.

**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the **New Co-Curricular List Proposal** form in your department's binder.

**13) Course Computing Lab and Expendables Fees**

**DO NOT RECORD FEE INFORMATION HERE.** Submit course fee information on the **Course Computing Lab and Expendables Fees for New Courses** form included in your department's binder at the end of the fee section.

**14) Degree Programs which this course will affect**

List the degrees, minors, and certificates in which this course will be required or used as an elective: \*\*\*

Degree Program(s):
Proposed MS and PhD programs in the KIP
Dept. _____
_____
_____
_____
_____

\*\*\* Be sure to adjust the appropriate degree audits in sections 7 and 8 in your department's binder.

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**15) Course Rationale** *(Required)*

This course is part of the graduate programs being proposed by the KIP Department.
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**16) Faculty Contact**

Faculty proposing this course *(please print)*: Name Jason R. Carter

Email jcarter@mtu.edu

**DID YOU USE RED INK TO COMPLETE THIS FORM?  
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### 1) Course Information

Is this a half-semester course proposal?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

Course Prefix/Number (i.e. MEEM 2110): EH4720

Course Title (abbreviated; used on transcript - Up to 30 characters including spaces)

Sleep and Circadian Physiology

Alternative Title for Catalog (Up to 100 characters including spaces)

Sleep and Circadian Physiology

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### 2) Credits

Number of credits assigned to this course 3

OR

Range of credits if variable  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

2

Lecture

1

Recitation

0

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)



5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY?** (*grade of S or E*)  Yes  No

6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s):
N/A
_____
_____

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s):
1 BL2020
<input checked="" type="checkbox"/> And or <input type="checkbox"/> Or 2 BL2021
<input type="checkbox"/> And or <input type="checkbox"/> Or 3 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s):
N/A
_____
_____

**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

This course focuses on the role of sleep and circadian rhythm on physiological control systems. Topics include basic mechanisms of the sleep-wake cycle, role of sleep and circadian clock on cardiovascular and respiratory control, overview and treatment strategies for common sleep disorders, and techniques in sleep medicine research. Course content will be delivered using a combination of lecture, seminar, scientific articles, and group work.

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**9) Registration Restrictions**

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**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR** their **Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)
_____
-OR-
Colleges/Schools who MAY enroll (INCLUDE)
_____

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)
_____
-OR-
Majors that MAY enroll (INCLUDE)
_____
_____

-- Restrictions continued on next page --



- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)
FR, SO _____
-OR-
Class of students who MAY enroll (INCLUDE)
_____

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**10) Semester(s) Offered**

Fall       Spring       Summer      *(Check all that apply)*

**OR**       On Demand

If offered in a specific semester, will the course be offered only in alternate years?       Yes       No

If yes, what will be the starting academic year? *(i.e. 2008-09 or 2009-10)* \_\_\_\_\_

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**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the ***New Distribution List Proposal*** form in your department's binder.

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**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the ***New Co-Curricular List Proposal*** form in your department's binder.

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**13) Course Computing Lab and Expendables Fees**

**DO NOT RECORD FEE INFORMATION HERE.** Submit course fee information on the ***Course Computing Lab and Expendables Fees for New Courses*** form included in your department's binder at the end of the fee section.

**14) Degree Programs which this course will affect**

List the degrees, minors, and certificates in which this course will be required or used as an elective: \*\*\*

Degree Program(s):
Proposed MS and PhD programs in the KIP
Dept. _____
_____
_____
_____

**\*\*\* Be sure to adjust the appropriate degree audits in sections 7 and 8 in your department's binder.**

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**15) Course Rationale** *(Required)*

Course is part of the graduate programs being proposed by the KIP Dept.

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**16) Faculty Contact**

Faculty proposing this course *(please print)*: Name Jason R. Carter

Email jcarter@mtu.edu

**DID YOU USE RED INK TO COMPLETE THIS FORM?  
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### 1) Course Information

Is this a **half-semester course proposal**?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
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**Course Prefix/Number** (i.e. MEEM 2110): EH4730

**Course Title** (abbreviated; used on transcript - Up to 30 characters including spaces)

Neuroendocrine Physiology

**Alternative Title for Catalog** (Up to 100 characters including spaces)

Neuroendocrine Physiology

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### 2) Credits

Number of credits assigned to this course 3

OR

Range of credits if variable  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

2

Lecture

1

Recitation

0

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)



5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY?** (*grade of S or E*)  Yes  No

6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s): N/A _____ _____
--

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s): 1 BL2020 <input checked="" type="checkbox"/> And or <input type="checkbox"/> Or 2 BL2021 <input type="checkbox"/> And or <input type="checkbox"/> Or 3 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____
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A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s): N/A _____ _____ _____
--

**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

This course will focus on understanding how the neural and the endocrine system are regulated under both normal physiological conditions and pathophysiological states. The major objective of this course is to prepare graduate students to develop critical thinking and problem solving skills related to the function of the nervous system and endocrine system, and their complex interaction with each other. This will be done through a combination of lecture, seminar, scientific articles, lab techniques, and group work.

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**9) Registration Restrictions**

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Department **OR**  Instructor

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**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)
_____
-OR-
Colleges/Schools who MAY enroll (INCLUDE)
_____

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)
_____
-OR-
Majors that MAY enroll (INCLUDE)
_____
_____

-- Restrictions continued on next page --

- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)
FR, SO <hr style="width: 80%; margin: 0 auto;"/>
-OR-
Class of students who MAY enroll (INCLUDE)
<hr style="width: 80%; margin: 0 auto;"/>

**10) Semester(s) Offered**

Fall     
  Spring     
  Summer     
 (Check all that apply)

**OR**     On Demand

If offered in a specific semester, will the course be offered only in alternate years?     Yes     No

If yes, what will be the starting academic year? (i.e. 2008-09 or 2009-10) \_\_\_\_\_

**11) General Education HASS Distribution**

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Degree Program(s):
Proposed MS and PhD programs in the KIP
Dept. _____
_____
_____
_____
_____

\*\*\* Be sure to adjust the appropriate degree audits in sections 7 and 8 in your department's binder.

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**15) Course Rationale** *(Required)*

Course is part of the graduate programs being proposed by the KIP Dept.

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**16) Faculty Contact**

Faculty proposing this course *(please print)*: Name Jason R. Carter

Email jcarter@mtu.edu

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Is this a **half-semester course proposal**?  Yes  No

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**Course Prefix/Number** (i.e. MEEM 2110): EH4760

**Course Title** (abbreviated; used on transcript - Up to 30 characters including spaces)

Computational Biomechanics

**Alternative Title for Catalog** (Up to 100 characters including spaces)

Computational Biomechanics

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### 2) Credits

Number of credits assigned to this course 3

**OR**

Range of credits if **variable**  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

2

Lecture

1

Recitation

0

Lab

**OR**

Research Course?  Yes  No

**OR**

Special Topics Course?  Yes  No

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---

### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)

5) **Pass/Fail**

Will this course be offered as a **pass/fail option ONLY**? (grade of S or E)  Yes  No

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6) **Cross Listed/Equivalent Course**

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

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7) **Corequisites and Prerequisites**

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s): N/A _____ _____
--

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s): 1 EH4500 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 2 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 3 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____
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Concurrent prerequisite course(s): N/A _____ _____ _____
--



**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog. **Please refer to the guidebook for examples and suggestions on developing a course description.**

Computational Biomechanics provides an introduction to the application of computer simulation to solve some fundamental problems in biomechanics and bioengineering. Musculoskeletal mechanics, joint mechanics, and inter-subject variability will be considered. An emphasis will be placed on understanding the limitations of the computer model as a predictive tool and the need for rigorous verification and validation of computational techniques.

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Department **OR**  Instructor

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**No College/School Restrictions**

**No Major Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)

\_\_\_\_\_

-OR-

Colleges/Schools who MAY enroll (INCLUDE)

\_\_\_\_\_

Majors that MAY NOT enroll (EXCLUDE)

\_\_\_\_\_

-OR-

Majors that MAY enroll (INCLUDE)

\_\_\_\_\_

\_\_\_\_\_

-- Restrictions continued on next page --

- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)  <hr style="width: 80%; margin: auto;"/> <p style="text-align: center;">-OR-</p> Class of students who MAY enroll (INCLUDE)  <hr style="width: 80%; margin: auto;"/>
--

**10) Semester(s) Offered**

Fall       Spring       Summer      *(Check all that apply)*

**OR**       On Demand

If offered in a specific semester, will the course be offered only in alternate years?     Yes     No

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**Course Prefix/Number** (i.e. MEEM 2110): EH4770

**Course Title** (abbreviated; used on transcript - Up to 30 characters including spaces)

Specificity of Exercise Assessment & Prescription

**Alternative Title for Catalog** (Up to 100 characters including spaces)

Specificity of Exercise Assessment & Prescription

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## 2) Credits

Number of credits assigned to this course 3

OR

Range of credits if **variable**  to  (Number of credits to be taken in a given semester)

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## 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

2

Lecture

1

Recitation

0

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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## 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)

5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY?** (*grade of S or E*)  Yes  No

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6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

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7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s): N/A _____ _____
--

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course.  
**Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s): 1 EH3100 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 2 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 3 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____
--

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s): N/A _____ _____ _____
--



**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

Peer-reviewed literature will be utilized to understand the sport-specific needs of athletes in regard to how they are tested and trained. Students will be expected to design a year-round training program for a particular sport that includes at least 3 testing sessions to evaluate the athlete. Laboratory sessions will cover measurement techniques such as expired air analysis, blood lactate assessment, and surface electromyography.

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**9) Registration Restrictions**

- If permission is **always required** for registration purposes (a student cannot enter the course without department or instructor signature), please select the appropriate permission.

**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR** their **Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

**No Major Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)

\_\_\_\_\_

-OR-

Colleges/Schools who MAY enroll (INCLUDE)

\_\_\_\_\_

Majors that MAY NOT enroll (EXCLUDE)

\_\_\_\_\_

-OR-

Majors that MAY enroll (INCLUDE)

\_\_\_\_\_

\_\_\_\_\_

-- Restrictions continued on next page --



- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)
FR, SO <hr style="width: 80%; margin: 0 auto;"/>
-OR-
Class of students who MAY enroll (INCLUDE)
<hr style="width: 80%; margin: 0 auto;"/>

**10) Semester(s) Offered**

Fall     
  Spring     
  Summer     
 (Check all that apply)

**OR**     On Demand

If offered in a specific semester, will the course be offered only in alternate years?     Yes     No

If yes, what will be the starting academic year? (i.e. 2008-09 or 2009-10) \_\_\_\_\_

**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the **New Distribution List Proposal** form in your department's binder.

**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the **New Co-Curricular List Proposal** form in your department's binder.

**13) Course Computing Lab and Expendables Fees**

**DO NOT RECORD FEE INFORMATION HERE.** Submit course fee information on the **Course Computing Lab and Expendables Fees for New Courses** form included in your department's binder at the end of the fee section.



# MichiganTech

## — Course Add Proposal — PLEASE COMPLETE THIS FORM IN RED

A guide for completing this form is located at [www.admin.mtu.edu/em/faculty/courses/proposal\\_guide.php](http://www.admin.mtu.edu/em/faculty/courses/proposal_guide.php)

### 1) Course Information

Is this a **half-semester course proposal**?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

**Course Prefix/Number** (i.e. MEEM 2110): EH5310

**Course Title** (abbreviated; used on transcript - Up to 30 characters including spaces)

Advanced Exercise Physiology

**Alternative Title for Catalog** (Up to 100 characters including spaces)

Advanced Exercise Physiology

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### 2) Credits

Number of credits assigned to this course 3

OR

Range of credits if **variable**  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

2

Lecture

1

Recitation

0

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)



5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY?** (*grade of S or E*)  Yes  No

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6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

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7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s): N/A _____ _____
--

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course.  
**Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s): 1 <u>EH4210</u> <input checked="" type="checkbox"/> And or <input type="checkbox"/> Or 2 <u>EH4211</u> <input type="checkbox"/> And or <input type="checkbox"/> Or 3 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____
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A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s): N/A _____ _____ _____
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**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

This course focuses on exercise physiology in both humans and rodents. Topics include detailed muscle physiology, fatigue mechanisms, the autonomic nervous system, advanced cardiovascular adaptations with exercise, exercise metabolism, and environmental exercise physiology. The importance of translational research will be highlighted.

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**9) Registration Restrictions**

- If permission is **always required** for registration purposes (a student cannot enter the course without department or instructor signature), please select the appropriate permission.

**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR their Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)
_____
-OR-
Colleges/Schools who MAY enroll (INCLUDE)
_____

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)
_____
-OR-
Majors that MAY enroll (INCLUDE)
_____
_____

-- Restrictions continued on next page --

- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)  _____  -OR-  Class of students who MAY enroll (INCLUDE)  _____
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**10) Semester(s) Offered**

Fall       Spring       Summer      *(Check all that apply)*

**OR**       On Demand

If offered in a specific semester, will the course be offered only in alternate years?       Yes       No

If yes, what will be the starting academic year? *(i.e. 2008-09 or 2009-10)* 2014-2015

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**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the ***New Distribution List Proposal*** form in your department's binder.

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**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the ***New Co-Curricular List Proposal*** form in your department's binder.

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**13) Course Computing Lab and Expendables Fees**

**DO NOT RECORD FEE INFORMATION HERE.** Submit course fee information on the ***Course Computing Lab and Expendables Fees for New Courses*** form included in your department's binder at the end of the fee section.





# MichiganTech

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### 1) Course Information

Is this a **half-semester course proposal**?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

**Course Prefix/Number** (i.e. MEEM 2110): EH5320

**Course Title** (abbreviated; used on transcript - Up to 30 characters including spaces)

Advanced Biomechanics

**Alternative Title for Catalog** (Up to 100 characters including spaces)

Advanced Biomechanics

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### 2) Credits

Number of credits assigned to this course 3

OR

Range of credits if **variable**  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

2

Lecture

1

Recitation

0

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)

5) **Pass/Fail**

Will this course be offered as a **pass/fail option ONLY?** (*grade of S or E*)  Yes  No

6) **Cross Listed/Equivalent Course**

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

7) **Corequisites and Prerequisites**

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s): N/A _____ _____
--

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s): 1 EH4500 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 2 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 3 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____
--

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s): N/A _____ _____ _____
--



**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

This course includes the quantitative analysis of human motion through bioinstrumentation during dynamic performance. A detailed analysis of different movements and movement techniques, from both a clinical and exercise science perspective, as well as investigations into the mechanics of tissues and their function, are integral features of this course. Students will also learn how to interpret the data recorded by biomechanical equipment, and how to apply this to the body of knowledge in sport science.

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**9) Registration Restrictions**

- If permission is **always required** for registration purposes (a student cannot enter the course without department or instructor signature), please select the appropriate permission.

**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR their Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)

\_\_\_\_\_

-OR-

Colleges/Schools who MAY enroll (INCLUDE)

\_\_\_\_\_

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)

\_\_\_\_\_

-OR-

Majors that MAY enroll (INCLUDE)

\_\_\_\_\_

\_\_\_\_\_

-- Restrictions continued on next page --

- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)  <hr style="width: 80%; margin: auto;"/> -OR-  Class of students who MAY enroll (INCLUDE)  <hr style="width: 80%; margin: auto;"/>
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**10) Semester(s) Offered**

Fall       Spring       Summer      *(Check all that apply)*

**OR**       On Demand

If offered in a specific semester, will the course be offered only in alternate years?     Yes     No

If yes, what will be the starting academic year? *(i.e. 2008-09 or 2009-10)* \_\_\_\_\_

**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the ***New Distribution List Proposal*** form in your department's binder.

**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the ***New Co-Curricular List Proposal*** form in your department's binder.

**13) Course Computing Lab and Expendables Fees**

**DO NOT RECORD FEE INFORMATION HERE.** Submit course fee information on the ***Course Computing Lab and Expendables Fees for New Courses*** form included in your department's binder at the end of the fee section.





# MichiganTech

## — Course Add Proposal — PLEASE COMPLETE THIS FORM IN RED

A guide for completing this form is located at [www.admin.mtu.edu/em/faculty/courses/proposal\\_guide.php](http://www.admin.mtu.edu/em/faculty/courses/proposal_guide.php)

### 1) Course Information

Is this a **half-semester course proposal**?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

**Course Prefix/Number** (i.e. MEEM 2110): EH5330

**Course Title** (abbreviated; used on transcript - Up to 30 characters including spaces)

Advanced Motor Behavior

**Alternative Title for Catalog** (Up to 100 characters including spaces)

Advanced Motor Behavior

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### 2) Credits

Number of credits assigned to this course 3

OR

Range of credits if **variable**  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

2

Lecture

1

Recitation

0

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)

5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY?** (*grade of S or E*)  Yes  No

6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s): N/A _____ _____
--

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s): 1 EH4400 <input type="checkbox"/> And or <input checked="" type="checkbox"/> Or 2 EH4420 <input type="checkbox"/> And or <input type="checkbox"/> Or 3 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____
---

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s): N/A _____ _____ _____
--



**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

Peer-reviewed literature will be utilized to acquaint students with scholarly issues and topics in motor learning and control that are relevant to their fields. The theoretical concepts related to motor control, motor learning, and motor development will be covered. Students will be expected to design a scientific research study related to their specific interest goals.

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**9) Registration Restrictions**

- If permission is **always required** for registration purposes (a student cannot enter the course without department or instructor signature), please select the appropriate permission.

**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR their Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)
_____
-OR-
Colleges/Schools who MAY enroll (INCLUDE)
_____

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)
_____
-OR-
Majors that MAY enroll (INCLUDE)
_____
_____

-- Restrictions continued on next page --



- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)  <hr style="width: 50%; margin: auto;"/> -OR-  Class of students who MAY enroll (INCLUDE)  <hr style="width: 50%; margin: auto;"/>
---

**10) Semester(s) Offered**

Fall       Spring       Summer      *(Check all that apply)*

**OR**       On Demand

If offered in a specific semester, will the course be offered only in alternate years?     Yes     No

If yes, what will be the starting academic year? (i.e. 2008-09 or 2009-10) \_\_\_\_\_

**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the ***New Distribution List Proposal*** form in your department's binder.

**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the ***New Co-Curricular List Proposal*** form in your department's binder.

**13) Course Computing Lab and Expendables Fees**

**DO NOT RECORD FEE INFORMATION HERE.** Submit course fee information on the ***Course Computing Lab and Expendables Fees for New Courses*** form included in your department's binder at the end of the fee section.

**14) Degree Programs which this course will affect**

List the degrees, minors, and certificates in which this course will be required or used as an elective: \*\*\*

Degree Program(s):
Proposed MS and PhD programs in the KIP
Dept. _____
_____
_____
_____

\*\*\* Be sure to adjust the appropriate degree audits in sections 7 and 8 in your department's binder.

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**15) Course Rationale** *(Required)*

Course is part of the graduate programs being proposed by the KIP Dept.
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**16) Faculty Contact**

Faculty proposing this course *(please print)*: Name Jason R. Carter

Email jcarter@mtu.edu

**DID YOU USE RED INK TO COMPLETE THIS FORM?**  
**IF NOT, PLEASE HIGHLIGHT YOUR ANSWERS SO NOTHING IS MISSED IN PROCESSING.**

# MichiganTech

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A guide for completing this form is located at [www.admin.mtu.edu/em/faculty/courses/proposal\\_guide.php](http://www.admin.mtu.edu/em/faculty/courses/proposal_guide.php)

### 1) Course Information

Is this a **half-semester course proposal**?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

**Course Prefix/Number** (i.e. MEEM 2110); EH5500

**Course Title** (abbreviated; used on transcript - Up to 30 characters including spaces)

Advanced Sport Psychology

**Alternative Title for Catalog** (Up to 100 characters including spaces)

Advanced Sport Psychology

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### 2) Credits

Number of credits assigned to this course 3

OR

Range of credits if **variable**  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

2

Lecture

1

Recitation

0

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

---

---

### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)



5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY**? (grade of S or E)  Yes  No

6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s):
N/A
_____
_____

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s):
1 EH5310
<input type="checkbox"/> And or <input checked="" type="checkbox"/> Or 2 EH5320
<input type="checkbox"/> And or <input checked="" type="checkbox"/> Or 3 EH5330
<input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s):
N/A
_____
_____
_____

**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

This course is designed to educate students for roles dealing with ethical performance enhancement in sport and exercise. Upon completion of the course, students will understand the importance of theoretical foundations for improving performance, research and evaluation, developing relationships, individual and group skills, normal and abnormal behavior, and the various psychological factors that affect performance in sport and exercise. This course provides students an opportunity to develop a foundation in applied sport psychology and a knowledge base in the physiological, motor, and psychosocial aspects of sport behavior.

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**9) Registration Restrictions**

- If permission is **always required** for registration purposes (a student cannot enter the course without department or instructor signature), please select the appropriate permission.

**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR** their **Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)
_____
-OR-
Colleges/Schools who MAY enroll (INCLUDE)
_____

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)
_____
-OR-
Majors that MAY enroll (INCLUDE)
_____
_____

-- Restrictions continued on next page --



- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)  <hr style="width: 50%; margin: auto;"/>  -OR-  Class of students who MAY enroll (INCLUDE)  <hr style="width: 50%; margin: auto;"/>
---

**10) Semester(s) Offered**

Fall     
  Spring     
  Summer     
 (Check all that apply)

**OR**     On Demand

If offered in a specific semester, will the course be offered only in alternate years?     Yes     No

If yes, what will be the starting academic year? (i.e. 2008-09 or 2009-10) \_\_\_\_\_

**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the **New Distribution List Proposal** form in your department's binder.

**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the **New Co-Curricular List Proposal** form in your department's binder.

**13) Course Computing Lab and Expendables Fees**

**DO NOT RECORD FEE INFORMATION HERE.** Submit course fee information on the **Course Computing Lab and Expendables Fees for New Courses** form included in your department's binder at the end of the fee section.





# MichiganTech

## — Course Add Proposal — PLEASE COMPLETE THIS FORM IN RED

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### 1) Course Information

Is this a **half-semester course proposal**?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

**Course Prefix/Number** (i.e. MEEM 2110): EH5510

**Course Title** (abbreviated; used on transcript - Up to 30 characters including spaces)

Advanced Strength & Conditioning

**Alternative Title for Catalog** (Up to 100 characters including spaces)

Advanced Strength & Conditioning

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### 2) Credits

Number of credits assigned to this course 3

OR

Range of credits if **variable**  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

2

Lecture

1

Recitation

0

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)

5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY?** (*grade of S or E*)  Yes  No

6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s):
N/A
_____
_____

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s):
1 EH5310
<input type="checkbox"/> And or <input checked="" type="checkbox"/> Or 2 EH5320
<input type="checkbox"/> And or <input checked="" type="checkbox"/> Or 3 EH5330
<input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s):
N/A
_____
_____
_____



**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog. **Please refer to the guidebook for examples and suggestions on developing a course description.**

Advanced theory and practice in development and administration of comprehensive strength and conditioning programs for both the athlete and individual of any level. Includes knowledge, safety concerns and skill techniques necessary for teaching and administering any strength and conditioning facility. This will be done through a combination of lecture, seminar, scientific articles and practical experience.

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**9) Registration Restrictions**

- If permission is **always required** for registration purposes (a student cannot enter the course without department or instructor signature), please select the appropriate permission.

**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR** their **Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

**No Major Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)

\_\_\_\_\_

-OR-

Colleges/Schools who MAY enroll (INCLUDE)

\_\_\_\_\_

Majors that MAY NOT enroll (EXCLUDE)

\_\_\_\_\_

-OR-

Majors that MAY enroll (INCLUDE)

\_\_\_\_\_

\_\_\_\_\_

-- Restrictions continued on next page --

- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)  _____  -OR-  Class of students who MAY enroll (INCLUDE)  _____
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**10) Semester(s) Offered**

Fall       Spring       Summer      *(Check all that apply)*

**OR**       On Demand

If offered in a specific semester, will the course be offered only in alternate years?     Yes     No

If yes, what will be the starting academic year? *(i.e. 2008-09 or 2009-10)* \_\_\_\_\_

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**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the ***New Distribution List Proposal*** form in your department's binder.

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**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the ***New Co-Curricular List Proposal*** form in your department's binder.

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**13) Course Computing Lab and Expendables Fees**

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# MichiganTech

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### 1) Course Information

Is this a **half-semester course proposal**?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

**Course Prefix/Number** (i.e. MEEM 2110): EH5900

**Course Title** (abbreviated; used on transcript - Up to 30 characters including spaces)

Laboratory Techniques in Integrative Physiology

**Alternative Title for Catalog** (Up to 100 characters including spaces)

Laboratory Techniques in Integrative Physiology

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### 2) Credits

Number of credits assigned to this course 2

OR

Range of credits if **variable**  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

0

Lecture

1

Recitation

3

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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---

### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)

5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY?** (*grade of S or E*)  Yes  No

6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s): N/A _____ _____
--

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course.  
**Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s): 1 EH5310 <input type="checkbox"/> And or <input checked="" type="checkbox"/> Or 2 EH5320 <input type="checkbox"/> And or <input checked="" type="checkbox"/> Or 3 EH5330 <input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____
---

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s): N/A _____ _____ _____
--

**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

This course will expose graduate students to various methodologies in integrative physiology. Student will rotate between various laboratories and observe techniques such as microneurography, electrophysiology, molecular physiology, muscular fatigue, etc.; both human and animal methodologies will be examined.

**9) Registration Restrictions**

- If permission is **always** required for registration purposes (a student cannot enter the course without department or instructor signature), please select the appropriate permission.

**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR** their **Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)

\_\_\_\_\_

-OR-

Colleges/Schools who MAY enroll (INCLUDE)

\_\_\_\_\_

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)

\_\_\_\_\_

-OR-

Majors that MAY enroll (INCLUDE)

\_\_\_\_\_

\_\_\_\_\_

-- Restrictions continued on next page --



- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)  <hr style="width: 50%; margin: 0 auto;"/> <p style="text-align: center;">-OR-</p> <hr style="width: 50%; margin: 0 auto;"/> Class of students who MAY enroll (INCLUDE)  <hr style="width: 50%; margin: 0 auto;"/>
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**10) Semester(s) Offered**

Fall       Spring       Summer      *(Check all that apply)*

**OR**       On Demand

If offered in a specific semester, will the course be offered only in alternate years?     Yes     No

If yes, what will be the starting academic year? *(i.e. 2008-09 or 2009-10)* \_\_\_\_\_

**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the ***New Distribution List Proposal*** form in your department's binder.

**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the ***New Co-Curricular List Proposal*** form in your department's binder.

**13) Course Computing Lab and Expendables Fees**

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# MichiganTech

## — Course Add Proposal — PLEASE COMPLETE THIS FORM IN RED

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### 1) Course Information

Is this a half-semester course proposal?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

Course Prefix/Number (i.e. MEEM 2110): EH5920

Course Title (abbreviated; used on transcript - Up to 30 characters including spaces)

Graduate Seminar

Alternative Title for Catalog (Up to 100 characters including spaces)

Graduate Seminar

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### 2) Credits

Number of credits assigned to this course 1

OR

Range of credits if variable  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

0

Lecture

1

Recitation

0

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of 2 credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)



5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY?** (*grade of S or E*)  Yes  No

6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

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7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s):
N/A
_____
_____

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s):
1 EH5310
<input type="checkbox"/> And or <input checked="" type="checkbox"/> Or 2 EH5320
<input type="checkbox"/> And or <input checked="" type="checkbox"/> Or 3 EH5330
<input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s):
N/A
_____
_____

**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

Graduate seminars are designed to facilitate critical discussions of student research projects and peer-reviewed research in related fields. The presenter will provide an overview or seminar of the research of interest, which will establish the foundation for the discussion thereafter.

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**9) Registration Restrictions**

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**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR** their **Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)
_____
-OR-
Colleges/Schools who MAY enroll (INCLUDE)
_____

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)
_____
-OR-
Majors that MAY enroll (INCLUDE)
_____
_____

-- Restrictions continued on next page --

- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)  <hr style="width: 80%; margin: 0 auto;"/> -OR-  Class of students who MAY enroll (INCLUDE)  <hr style="width: 80%; margin: 0 auto;"/>
---

**10) Semester(s) Offered**

Fall     
  Spring     
  Summer     
 *(Check all that apply)*

**OR**     On Demand

If offered in a specific semester, will the course be offered only in alternate years?   
 Yes     No  
 If yes, what will be the starting academic year? *(i.e. 2008-09 or 2009-10)* \_\_\_\_\_

**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the ***New Distribution List Proposal*** form in your department's binder.

**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the ***New Co-Curricular List Proposal*** form in your department's binder.

**13) Course Computing Lab and Expendables Fees**

**DO NOT RECORD FEE INFORMATION HERE.** Submit course fee information on the ***Course Computing Lab and Expendables Fees for New Courses*** form included in your department's binder at the end of the fee section.



**14) Degree Programs which this course will affect**

List the degrees, minors, and certificates in which this course will be required or used as an elective: \*\*\*

Degree Program(s):
Proposed MS and PhD programs in the KIP
Dept. _____
_____
_____
_____

\*\*\* Be sure to adjust the appropriate degree audits in sections 7 and 8 in your department's binder.

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**15) Course Rationale** *(Required)*

Course is part of the graduate programs being proposed by the KIP Dept.
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**16) Faculty Contact**

Faculty proposing this course *(please print)*: Name Jason R. Carter

Email jcarter@mtu.edu

**DID YOU USE RED INK TO COMPLETE THIS FORM?  
IF NOT, PLEASE HIGHLIGHT YOUR ANSWERS SO NOTHING IS MISSED IN PROCESSING.**

# MichiganTech

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### 1) Course Information

Is this a half-semester course proposal?  Yes  No

**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

Course Prefix/Number (i.e. MEEM 2110): EH5950

Course Title (abbreviated; used on transcript - Up to 30 characters including spaces)

Graduate Internship in Kinesiology

Alternative Title for Catalog (Up to 100 characters including spaces)

Graduate Internship in Kinesiology

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### 2) Credits

Number of credits assigned to this course 6

OR

Range of credits if variable  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

Lecture

Recitation

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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---

### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of \_\_\_\_\_ credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)

5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY**? (*grade of S or E*)  Yes  No

6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

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7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses **MUST** be offered during the same term):

Required corequisite course(s): N/A _____ _____
--

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s): 1 N/A _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 2 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 3 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____ <input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____
--

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s): N/A _____ _____ _____
--



**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog.

**Please refer to the guidebook for examples and suggestions on developing a course description.**

Practical experience in the field of kinesiology at an approved internship site. Provides experience in a variety of exercise science or medical settings. Internships must be approved by the department chair or graduate director, and work a minimum of 50 hours for each credit earned.

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**9) Registration Restrictions**

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Department **OR**  Instructor

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**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)
_____
-OR-
Colleges/Schools who MAY enroll (INCLUDE)
_____

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)
_____
-OR-
Majors that MAY enroll (INCLUDE)
Proposed MS program in the KIP
Dept. _____
_____

-- Restrictions continued on next page --

- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)  <hr style="width: 80%; margin: 0 auto;"/> <p style="text-align: center;">-OR-</p> <hr style="width: 80%; margin: 0 auto;"/> Class of students who MAY enroll (INCLUDE)  <hr style="width: 80%; margin: 0 auto;"/>
--

**10) Semester(s) Offered**

Fall       Spring       Summer      *(Check all that apply)*

**OR**       On Demand

If offered in a specific semester, will the course be offered only in alternate years?       Yes       No  
 If yes, what will be the starting academic year? (i.e. 2008-09 or 2009-10) \_\_\_\_\_

**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the ***New Distribution List Proposal*** form in your department's binder.

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**13) Course Computing Lab and Expendables Fees**

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**NOTE:** All half-semester courses must follow rules set in Faculty Senate Proposal 4-00. See Senate website for details:  
<http://www.sas.it.mtu.edu/usenate/propose/03/10-03.htm>

**Course Prefix/Number** (i.e. MEEM 2110): EH5990

**Course Title** (abbreviated; used on transcript - Up to 30 characters including spaces)

Master's Thesis in Kinesiology

**Alternative Title for Catalog** (Up to 100 characters including spaces)

Master's Thesis in Kinesiology

\_\_\_\_\_

\_\_\_\_\_

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### 2) Credits

Number of credits assigned to this course \_\_\_\_\_

OR

Range of credits if **variable**  to  (Number of credits to be taken in a given semester)

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### 3) Schedule

**Contact Hours per Week** (Lec & Rec: 1 credit = 1 contact hour; Lab: 1 credit = 1-3 contact hours. i.e. A 3-credit course may be 2 contact hours of lecture or recitation and up to 3 contact hours of lab OR 1 contact hour of lecture or recitation and up to 6 contact hours of lab)

Lecture

Recitation

Lab

OR

Research Course?  Yes  No

OR

Special Topics Course?  Yes  No

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### 4) Additional Credits

May students receive **additional credits** by taking and passing this course more than once?

No

Yes, for a maximum of 20 credits. (Must be a multiple of the course credits, i.e. Research or Special Topics)

Yes, for an unlimited number of credits. (i.e. Music, Varsity sports, etc.)

5) Pass/Fail

Will this course be offered as a **pass/fail option ONLY?** (grade of S or E)  Yes  No

6) Cross Listed/Equivalent Course

**Cross Listed:** Is there an identical course offered in a different subject or at a different level?  Yes  No

If Yes, what is the other subject and course number? \_\_\_\_\_

**Equivalent Course:** Does this course replace a dropped course with no change in course content for degree requirements, prerequisites, and repeating purposes?  Yes  No

If Yes, what is the subject and course number of the dropped course? \_\_\_\_\_

7) Corequisites and Prerequisites

**Corequisites** are courses that are **REQUIRED to be taken at the SAME TIME** as this course (courses MUST be offered during the same term):

Required corequisite course(s):
N/A
_____
_____

**Prerequisites** are courses that are **REQUIRED to be taken PRIOR** to enrollment in this course. **Select appropriate box and use parentheses where needed** (refer to the guidebook for examples):

Required prerequisite course(s):
1 N/A
<input type="checkbox"/> And or <input type="checkbox"/> Or 2 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 3 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 4 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 5 _____
<input type="checkbox"/> And or <input type="checkbox"/> Or 6 _____

A **concurrent prerequisite** is a defined prerequisite course (from list above) that **MAY** be taken **EITHER** simultaneously in the same semester **OR** in a prior semester. Indicate below applicable courses.

Concurrent prerequisite course(s):
N/A
_____
_____
_____

**8) Catalog Course Description**

The traditional catalog style description for this course, **up to 40 words**. If course is proposed as a half-semester course, please include that information in the description so students will see it in the printed catalog. **Please refer to the guidebook for examples and suggestions on developing a course description.**

An original research investigation in kinesiology that culminates in a thesis.

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**9) Registration Restrictions**

- If permission is **always required** for registration purposes (a student cannot enter the course without department or instructor signature), please select the appropriate permission.

**Do not select unless EVERY STUDENT must get "SIGNED INTO" the class.**

Department **OR**  Instructor

- Students who register for this course may be restricted by their **College/School OR** their **Major**. Please indicate if any college or major restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No College/School Restrictions**

Colleges/Schools who MAY NOT enroll (EXCLUDE)
_____
-OR-
Colleges/Schools who MAY enroll (INCLUDE)
_____

**No Major Restrictions**

Majors that MAY NOT enroll (EXCLUDE)
_____
-OR-
Majors that MAY enroll (INCLUDE)
Proposed MS program in the KIP
Dept. _____
_____

-- Restrictions continued on next page --



- A restriction may also be placed on **Class Standing** (Freshman, Sophomore, Junior, Senior, Graduate). Please indicate if any class restrictions should be applied to this course. If there are no restrictions please indicate in the check box provided.

**No Class Restrictions**

Class of students who MAY NOT enroll (EXCLUDE)
UG <hr style="width: 80%; margin: 0 auto;"/>
-OR-
Class of students who MAY enroll (INCLUDE)
<hr style="width: 80%; margin: 0 auto;"/>

**10) Semester(s) Offered**

Fall     
  Spring     
  Summer     
 (Check all that apply)

**OR**     On Demand

If offered in a specific semester, will the course be offered only in alternate years?     Yes     No

If yes, what will be the starting academic year? (i.e. 2008-09 or 2009-10) \_\_\_\_\_

**11) General Education HASS Distribution**

To propose this course for inclusion on a **HASS Distribution List** (HASS, HASS Creative Endeavors, or HASS Supplemental) please complete the **New Distribution List Proposal** form in your department's binder.

**12) Co-Curricular**

To propose this course for inclusion on the **Co-Curricular List** please complete the **New Co-Curricular List Proposal** form in your department's binder.

**13) Course Computing Lab and Expendables Fees**

**DO NOT RECORD FEE INFORMATION HERE.** Submit course fee information on the **Course Computing Lab and Expendables Fees for New Courses** form included in your department's binder at the end of the fee section.

