Course Change Request

Indiana University

IUPUI Campus

Check Appropriate Boxes: Undergraduate credit ☑ Graduate credit ☐ Professional credit ☐

1. School/Division: School of Engineering and Technology

2. Academic Subject Code: MET

3. Current Course Number: 272

4. Current Credit Hours: 3

5. Current Title: Introduction to Motorsports

6. Effective Semester/Year for changes listed below: Summer 2009

7. Instructor: Pete Hylton

---

Type of Change Requested (Check appropriate boxes and indicate changes)

☐ 8. Change course number to: ___________________________ (must be cleared with University Enrollment Services)

☐ 9. Current course title: ___________________________________________________________________________

Change to: ______________________________________________________________________________________

Recommended abbreviation (optional) ______________________________________________________________________________________________________________

(Limited to 55 Characters including spaces)

☐ 10. Current credit hours fixed at: ___________ or variable from: ___________ to ___________

Change to credit hours fixed at: ___________ or variable from: ___________ to ___________

☐ 11. Current lecture contact hours fixed at: ___________ or variable from: ___________ to ___________

Change to lecture contact hours fixed at: ___________ or variable from: ___________ to ___________

☐ 12. Current non-lecture contact hours fixed at: ___________ or variable from: ___________ to ___________

Change to non-lecture contact hours fixed at: ___________ or variable from: ___________ to ___________

☐ 13. Is this course currently graded with S-F (only) grades? Yes ☑ No ☐

Change to S-F (only) grading? Yes ☑ No ☐

☐ 14. Does this course presently have variable title approval? Yes ☑ No ☐

Is variable title approval being requested? Yes ☑ No ☐

☐ 15. Is this course being discontinued? For all campuses ☑ or for this campus only ☐

---

16. Current course description

Course description is not changing except for the pre-requisites being deleted (formerly MET211, CGT211, OLS 274 or ECET 107)

Change course description to (not to exceed 50 words)

Course description is not changing except for the pre-requisites being deleted.

---

17. Justification for change

Course is being revised as a freshman course with no pre-requisites required.

---

18. Are the necessary reading materials currently available in the appropriate library? ☑ Yes

---

19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of this course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by: Michael E. Gozo Date 10/02/08

Department Chairman/Division Director

Approved by: M. U. Atay Date 10-28-08

Dean

Dean of Graduate School (when required)

Chancellor/Vice-President

University Enrollment Services

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.
MET272 – Introduction to Motorsports – Fall 2008

Description: An overview of the motorsports industry, organization, technology, and careers.

Class Times: Tuesdays & Thursdays 4:30-5:45

Room: ET304

Instructor: Pete Hylton
Phone: 317-274-7192
office: ET209G
email: phylton@iupui.edu

Text: none

Grading:
Assignments 100 points
Project 100 points
Final Exam 100 points 300 points total

Minimum Scale: 90-100 = A, 80-90 = B, 70-80 = C, 60-70 = D, 0-60 = F +/- will be given

Research Project (individual)

1. Thoroughly research and investigate some motorsports design aspect, OR design and analyze a new motorsports related concept, OR perform further investigation on some topic which was only covered briefly in class OR compare and contrast two or more different aspects or viewpoints of some topic(s) covered in class.
2. Use APA writing format. Feel free to use the university writing center for help.
3. Minimum 10 pages of text, double spaced 12 point font, normal margins. Minimum 5 references (book, magazine, video, internet, interview), must be credible (no bloggers) – check accuracy and authenticity of sources.
4. Minimum 10 minute in-class presentation is required.

Design Project (group)

1. Design projects must involve all aspects of an actual design and fabrication project, including concept evaluation, design considerations, necessary analysis, and project completion.
2. A variety of projects will be considered acceptable. The professor will have some examples to offer, or you may suggest one. Professor must approve the project concept.
3. An appropriate length summary report will be required, including description of all design aspects, and analysis, with appropriate figures and graphics.
4. Minimum 10 minute in-class presentation is required.

All Projects: Minimums are minimums – meeting minimums does not guarantee an A paper.
## Tentative Course Schedule:

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 21</td>
<td>Introduction (HW 1, due Sep 2)</td>
</tr>
<tr>
<td>Aug 26</td>
<td>Motorsports Industry Overview</td>
</tr>
<tr>
<td>Aug 28</td>
<td>History of Motorsports</td>
</tr>
<tr>
<td>Aug 29 (Friday)</td>
<td>Optional Field Trip to US Nationals Drag Races at ORP</td>
</tr>
<tr>
<td>Sep 2</td>
<td>History of Motorsports, continued (HW 2, due Sep 11)</td>
</tr>
<tr>
<td>Sep 4</td>
<td>Guest speaker: Brian Woodall, Physics PhD and motorcycle specialist</td>
</tr>
<tr>
<td>Sep 9</td>
<td>Design for Safety</td>
</tr>
<tr>
<td>Sep 11</td>
<td>Math and Physics of Racing (HW 3 due Sept 25)</td>
</tr>
<tr>
<td>Sep 16</td>
<td>Guest Speaker: Tom Weisenbach, Indiana Motorsports Association</td>
</tr>
<tr>
<td>Sep 18</td>
<td>Sanctioning Bodies, Rules Making, Event Organization</td>
</tr>
<tr>
<td>Sep 23</td>
<td>Guest Speaker: John Oreovicz, motorsports journalist</td>
</tr>
<tr>
<td>Sep 25</td>
<td>Creative Design Approaches</td>
</tr>
<tr>
<td>Sep 30</td>
<td>Guest Speaker: Rollie Helmling, former team owner and past-president of USAC</td>
</tr>
<tr>
<td>Oct 2</td>
<td>Basic Aerodynamics (HW 4 due Oct 14)</td>
</tr>
<tr>
<td>Oct 7</td>
<td>Guest Speaker: Danny White, crew chief, currently IPS, formerly Indycar</td>
</tr>
<tr>
<td>Oct 9</td>
<td>Motorsports Industry Perceptions</td>
</tr>
<tr>
<td>Oct 14</td>
<td>Basic Vehicle Dynamics (HW 5 due Oct 23)</td>
</tr>
<tr>
<td>Oct 16</td>
<td>Guest Speaker: Ken Joyce, KJ Safety Products</td>
</tr>
<tr>
<td>Oct 21</td>
<td>Manufacturing for Motorsports</td>
</tr>
<tr>
<td>Oct 23</td>
<td>Diversity in Motorsports</td>
</tr>
<tr>
<td>Oct 26 (Sunday)</td>
<td>Challenge of the Deans at SCCA Autocross, Grissom Aeroplex</td>
</tr>
<tr>
<td>Oct 28</td>
<td>Guest Speaker: tbd</td>
</tr>
<tr>
<td>Oct 30</td>
<td>Technical &amp; non-technical careers</td>
</tr>
<tr>
<td>Nov 4</td>
<td>Guest Speaker: tbd</td>
</tr>
<tr>
<td>Nov 5 (Wednesday)</td>
<td>Extra Credit for attending Spirit &amp; Place discussion, 7-9 pm, campus</td>
</tr>
<tr>
<td>Nov 6</td>
<td>Project Presentations</td>
</tr>
<tr>
<td>Nov 11</td>
<td>Project Presentations</td>
</tr>
<tr>
<td>Nov 13</td>
<td>Project Presentations</td>
</tr>
<tr>
<td>Nov 18</td>
<td>Project Presentations</td>
</tr>
<tr>
<td>Nov 20</td>
<td>Project Presentations</td>
</tr>
<tr>
<td>Nov 25</td>
<td>Project Presentations</td>
</tr>
<tr>
<td>Nov 27</td>
<td>THANKSGIVING – No Class</td>
</tr>
<tr>
<td>Dec 2</td>
<td>Wrap-up and Review</td>
</tr>
<tr>
<td>Dec 4</td>
<td>No Class (Professor at DIAC)</td>
</tr>
<tr>
<td>Dec 12 (Friday)</td>
<td>Final Exam, 3:30-5:30 (may be on-line)</td>
</tr>
</tbody>
</table>
Course Outcomes:

1. Demonstrate knowledge of the motorsports industry and techniques, skills and modern tools of the industry.
2. Apply current knowledge and adapt to and solve problems relevant to the industry.
3. Communicate effectively.
4. Recognize the need for and possess the ability to pursue lifelong learning.
5. Recognize professional, ethical and societal responsibilities.
6. Recognize contemporary issues and be aware of and respect diversity.
### PURDUE UNIVERSITY
### REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE
### (100-400 LEVEL)

#### DEPARTMENT: Mechanical Engineering Technology
#### EFFECTIVE SESSION: Spring 2009

**INSTRUCTIONS:** Please check the items below which describe the purpose of this request.

- [ ] New course with supporting documents
- [ ] Add existing course offered at another campus
- [ ] Expirations of a course
- [ ] Change in course number
- [ ] Change in course title
- [ ] Change in course credit type
- [ ] Change in course attributes (department head signature only)
- [ ] Change in instructional hours
- [ ] Change in course description
- [ ] Change in course requisites
- [ ] Change in semesters offered (department head signature only)
- [ ] Transfer from one department to another

#### PROPOSED:

- Subject Abbreviation: 
- Course Number: 
- Long Title: Introduction to Motorsports
- Short Title: Intro to Motorsports

#### EXISTING:

- Subject Abbreviation: MBT
- Course Number: 272
- Long Title: 
- Short Title: 

Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY)

#### TERMS OFFERED:

- CAMPUS(ES) INVOLVED: 
- Check All That Apply: 
  - Summer
  - Fall
  - Spring
  - Calumet
  - Cont Ed
  - Tech Statewide
  - Ft. Wayne
  - W. Lafayette
  - Indianapolis

#### CREDIT TYPE:

<table>
<thead>
<tr>
<th>Credit Type</th>
<th>Minutes Per Mth</th>
<th>Meetings Per Week</th>
<th>Weeks Offered</th>
<th>% Credit Allocated</th>
<th>Delivery Method (Asyn. Or Syn.)</th>
<th>Delivery Medium (Audio, Internet, Live, Text-Based, Video)</th>
</tr>
</thead>
</table>

#### COURSE ATTRIBUTES:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Check All That Apply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructor</td>
<td></td>
</tr>
<tr>
<td>Department</td>
<td></td>
</tr>
</tbody>
</table>

#### INSTRUCTIONAL TYPE:

- Lecture: 
- Recitation: 
- Presentation: 
- Laboratory: 
- Lab Prep: 
- Studio: 
- Distance: 
- Clinic: 
- Experiential: 
- Research: 
- Ind. Study: 
- Pract/Observ: 

#### COURSE DESCRIPTION (INCLUDE REQUISITES):

This course provides an introduction to the Motorsports industry, including careers available, the organization and history of the industry, and technology development that has occurred due to the industry. A student project is required.

#### Dates:

- Calumet Department Head: 
- Calumet School Dean: 
- Fort Wayne Department Head: 
- Fort Wayne School Dean: 
- Indianapolis Department Head: 
- Indianapolis School Dean: 
- North Central Department Head: 
- North Central Chancellor: 
- West Lafayette Department Head: 
- West Lafayette College/School Dean: 
- West Lafayette Registrar: 

**OFFICE OF THE REGISTRAR**

[Signature]

[Signature]

[Signature] 10-28-08