

Dr. Peter Hylton  
Assoc. Prof. & Graduate Education Committee Chair  
IUPUI School of Engineering & Technology  
799 W. Michigan St.  
Indianapolis, IN 46202

8 January 2016

Dr. James Mohler  
Assoc. Dean of the Graduate School  
Purdue University  
610 Purdue Mall  
West Lafayette, IN 47907



Dear Dr. Mohler,

As the chairman of the Graduate Education Committee for the IUPUI School of Engineering and Technology, I am writing to you with a request for an administrative change to the MS-TECH degree program at IUPUI, based on direction provided to the GEC Committee through Tina Payne, Graduate Programs Manager.

The original approval for the IUPUI MS-TECH program was for there to be three courses which constituted a common core for all students pursuing the MS-TECH degree at IUPUI. These courses were intended to be TECH 50700 (Measurement & Evaluation in Industry), TECH 50800 (Quality and Productivity in Industry & Technology) and TECH 64600 (Analysis of Research in Industry & Technology).

We would like to request an administrative change such that these required courses be altered to the following:

- TECH 50700 (Measurement & Evaluation in Industry)
- TECH 50801 (Quality and Productivity in Industry & Technology)
- Either OLS 57100 or TECH 50400 (both project management courses)

The justification for these changes is as follows:

Justification for change of TECH 64600: As our program has evolved, it has become obvious to us that TECH 64600, is a good fit for some students, but is not particularly beneficial to all students pursuing the program. Rather, the departments involved in the MS-TECH degree have agreed that our students would be better served if the third required course were a Project Management course (option of either OLS 57100 or TECH 50400).

Justification for change of TECH 50800: The request for TECH 50800 has never been approved, due to a number conflict. We are filing a new request for TECH 50801, utilizing the description which has been used in offering the course as a TECH 58100 variable topics offering in past semesters.

A sample plan of study (for the Motorsports Concentration) is attached to this letter.

We would greatly appreciate administrative approval for these changes. If you have further questions, do not hesitate to contact me at [phylton@iupui.edu](mailto:phylton@iupui.edu) or 317-274-7192.



cc: Tina Payne, Valerie Lim Diemer

PURDUE UNIVERSITY  
GRADUATE SCHOOL

Request for a Concentration

Heads of graduate programs may request that one or more concentration(s) be established within their majors, to allow a specialized area of graduate study to be reflected on a student's final transcript. A minimum of (9) nine credit hours of graded, graduate level coursework, i.e., 50000 and 60000 level courses, is required for a concentration.

Graduate Program (Major) Technology Major Code TECH

Title of Concentration Motorsports

Effective Session: \_\_\_\_\_ Fall  Spring \_\_\_\_\_ Summer \_\_\_\_\_ Academic year: 2015 - 2016

Degrees to which this concentration applies:

- Master of Science
- \_\_\_\_\_ Master of Arts
- \_\_\_\_\_ Doctor of Philosophy
- \_\_\_\_\_ Other \_\_\_\_\_

Mode of Delivery (i.e.: Campus Based/ Distance-Online):

Campus Based

Campus(s) at which this concentration applies:

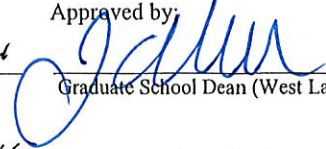
- \_\_\_\_\_ Calumet
- \_\_\_\_\_ Fort Wayne
- Indianapolis
- \_\_\_\_\_ North Central
- \_\_\_\_\_ West Lafayette


Justification: Please address the following topics (in order) when requesting a concentration: (Attach additional sheets as necessary.)

- Statement of the mission of the proposed concentration including, but not limited to, the need for the concentration, the target audience, the relationship to the major under which the concentration will be listed, and the relationship to other concentrations in the degree program
- Focus of the research or professional program
- Participating faculty, including name, academic rank, and departmental affiliation
- Currently enrolled or expected number of students
- Core courses and a description of how they fit into and support the degree program. List only the courses required for this concentration.
- Learning outcomes (e.g., unique knowledge or abilities, capacity to identify and conduct original research, ability to communicate to peer audiences, critical thinking and problem-solving skills, etc.).

Recommended by:   
Head of the Graduate Program

1/13/2016  
Date

Approved by:   
Graduate School Dean (West Lafayette) 3/10/16  
Date

  
Academic Dean

1/13/2016  
Date

Concentration Code \_\_\_\_\_  
(To be assigned by the Office of the Registrar if this request is for a new concentration)

Additional Authorizing Signature (if applicable) \_\_\_\_\_ Date \_\_\_\_\_ Contact person (& e-mail address) for questions regarding form \_\_\_\_\_

## Master of Science in Technology – Motorsports Concentration

<u>MS TECH Core Courses</u>	Option 1 (w/ project)	Option 2 (classes only)
TECH 50700 – Measurement & Evaluation in Industry (campus & on-line)	3 credits	3 credits
TECH 50801 – Quality and Productivity in Industry & Technology (ditto)	3 credits	3 credits
TECH 50400 – Motorsports Project Management	3 credits	3 credits
TECH 58100 - Directed Project with Motorsports Theme	3 credits	

**Student Selected Courses:**

	minimum of :	9 credits	12 credits
<u>Motorsports Core Courses - Choose from</u>	maximum of :	21 credits	24 credits

TECH 58100 – Variable Topic: Motorsports Aerodynamics (3cr)

(prereq for TECH 582 VT: Adv. Motorsports Aero)

TECH 58100 – Variable Topic: Vehicle Dynamics (3cr)

(prereq for TECH 582 VT: Adv. Vehicle Dynamics)

TECH 58100 – Variable Topic: IC Engines (3cr)

(prereq for TECH 582 VT: Cont. Comb. Engines)

ME 50400 -- Automotive Controls (3cr)

TECH 52100 - Practicum in Motorsports Design and Application (4cr)

TECH 53100 - Motorsports Topics Seminar (2cr)

TECH 58200 – Motorsports Special Topics (1-3cr)

(A variety of special topics courses are offer, including, but not limited to: Advanced Vehicle Dynamics, Advanced Motorsports Aerodynamics, Continuous Combustion Engines)

Other Automotive related courses offered by other departments and approved by the student’s advisory committee

**Other Courses – select from:**

remaining credits

TECH 58100 – Advanced Computational Methods for Engr Tech (3cr)

MATH 53700, MATH 52800, or MATH 57800 (3cr)

Adv Stress Analysis (TECH 58100, ME 55000 or equivalent) (3cr)

Adv Vibrations (TECH 58100, ME 56300 or equivalent) (3cr)

Adv Materials (TECH 58100, ME 55800 or equivalent) (3cr)

alternate courses level approved by the student’s advisory committee

	Total:	-----	-----
		33 credits	33 credits