

**TOPIC:**

**THE AUTOMOTIVE ENGINEERING PHD PROGRAM OVERVIEW:**

**1- Automotive Engineering PhD Degree Requirements**

<b>Credit Hrs:</b>	45 credit hours required, 60 credit hours typical
<b>Program Duration:</b>	48 Months
<b>Course Requirements:</b>	18 Courses (54 credit hours); <i>For students coming into the PhD program with MS in engineering, a portion of the course requirements maybe waived.</i>
<b>Research Thesis:</b>	Dissertation, 18 credit hours.
<b>Additional Requirements:</b>	For students lacking foreign language proficiency and a foreign cultural experience: a three-month (zero-credit-hour) cultural immersion with foreign language training course is required. In addition, a six-month (zero-credit-hour) overseas residency is required.
<b>Program Designation:</b>	AuE

**2- Automotive Engineering PhD Degree:**

***Single PhD AuE Program Stem***

<b>Objective</b>	To produce highly-trained individuals working at the cutting edge of various disciplines which are critical for the automotive engineering industry.
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**3- Common Course Requirements**

***(27 credit hours required),(42 credit hours Typical)***

<b>3 Core Courses (9 credit hours)</b>	AuE 880 - Design/Manufacture Project Management AuE 881 - Automotive Systems- an integrated overview AuE 882 - Systems Integration Concepts and Methods
<b>2 Track Courses (6 credit hours)</b>	AuE 833 - Automotive Manufactur Courses must come from different tracks. AuE 835 - Vehicle Electronics Integration – A Process Chain Prospective (C4)
<b>1 Minor Course (3 credit hours)</b>	
<b>3 Technical Minor Courses (9 credit hours)</b>	<i>The technical minor must be integrated in student's PhD dissertation work.</i>
<b>Courses in the Discipline</b>	<i>(0 Courses, 0 credit hours required),(5 Courses, 15 credit hours typical)</i>
<b>Objectives of Core Courses</b>	To provide the students with the foundations in automotive systems, project management, and systems integration methods, tools. And applications.
<b>Objectives of Track Courses</b>	To ensure that the student understands, at a minimum, applications of engineering and science to automotive engineering.
<b>Objectives of Minor Courses</b>	To provide the students with the foundations of business, economics, policies etc. as pertinent to the automotive industry.
<b>Objectives of Technical Minor Courses</b>	To provide the students with the knowledge of a technical concentration area outside the main technical discipline
<b>Objectives of Courses in the Discipline</b>	To provide the students with the fundamentals of the discipline(s) most pertinent to their PhD work.