

Designing Engineer Certificate

via **distance learning**

Method of Presentation

MTU required courses are currently offered via videotape delay. The courses are taped as they are taught on campus at MTU and are sent to distant sites with accompanying course materials.

Special Features

- Tuition and fees paid by GM and Delphi
- Course work completed on one-half company and one-half personal time
- Management-approved plan of study
- Multi-university transfer agreements

About the Technical Education Program (TEP)

The Technical Education Program (TEP) offers qualified GM and Delphi employees on-site technical coursework and degree programs from leading colleges and universities around the world. The purpose of the program is to keep GM's and Delphi's technical employees up-to-date with current and emerging technologies.

With an annual enrollment of over 4,000, TEP uses distance learning media such as videotape delay, Internet, videostreaming, and CD-ROM to provide on-site courses and degree programs to its 19 sites (13 U.S. locations and 6 international locations).

The program creates highly effective, job-related plans of study that are unique to GM and Delphi. It offers undergraduate degrees and certificates, graduate degrees, and post-graduate degrees, as well as GM- and Delphi-recognized Academic Achievement Awards.

Admission Criteria

You can be admitted to the Michigan Tech Certificate program by completing the Foundation Courses from Michigan Tech or transferring equivalent courses from other universities as outlined in Michigan Tech's Transfer Credit Policy.

Applying for Admission

If you wish to enter the certificate program at MTU, you must apply for undergraduate status. For applications, more specific and current information, contact your TEP Site Administrator.

Administered in partnership with the GM Technical Education Program, MTU's Sponsored Educational Programs, and the Department of Mechanical Engineering- Engineering Mechanics

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MichiganTech

www.admin.mtu.edu/disted

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DELPHI
Automotive Systems

Designing Engineer Certificate

Michigan Technological University, while located far from the hustle and bustle of the city, is one of the premier engineering colleges in the United States. Michigan Tech offers a Designing Engineer Certificate via distance learning through the Department of Mechanical Engineering-Engineering Mechanics within the College of Engineering.

The goal of the Designing Engineer Certificate (DEC) Program is to significantly enhance the skill base of a designer and engineer population with diverse educational and experiential backgrounds and provide them with a uniform knowledge base. Addressing students' varied qualifications is a critical component of the DEC program.

The DEC program addresses the diverse credentials of the designers as a group through modularized fundamentals courses. Developed specifically for this program are four courses which provide fundamentals in mathematics and engineering that will prepare the student with an appropriate foundation for the core area. Individuals completing the DEC program will be qualified to sit for a national examination administered by The American Society of Body Engineers, Inc., an independent and nationally recognized association.

The core courses of the DEC program are directly transferrable into Michigan Tech's Bachelor of Science in Engineering program.

Certificate Course Requirements

MTU Foundation Courses

		credits
MA 1040D	Math for Design I	3
MA 1041D	Math for Design II	3
MEEM 2111D	Statics for Design	3
MEEM 2151D	Mechanics of Materials for Design	3

Unigraphic CTIS Courses

16225	Assemblies - Tool Training	
16226	Drafting - Tool Training	
17854	Sketcher - Tool Training	
17531	Mechanisms - Advanced Engineering Training	
16240	Surface Applications - Advanced Tool Training	
16234	Advanced Modeling Techniques - Advanced Tool Training	
	For completing all six courses listed above:	6

Core Courses

ME 599P	Vehicle Occupant Packaging <i>(The University of Michigan - Ann Arbor)</i>	3
MY 2100	Introduction to Materials Science and Engineering <i>(Michigan Technological University)</i>	3
MEEM 2500	Integrated Design and Manufacturing <i>(Michigan Technological University)</i>	4
ME 457	Design for Manufacturability <i>(Purdue University)</i>	3
MEEM 4405	Introduction to Finite Element Methods <i>(Michigan Technological University)</i>	3
MEEM 4900	Senior Design I <i>(Michigan Technological University)</i>	3

Course numbers subject to change