

MatEd Teaching Modules

MatEd's goal is to introduce materials concepts into manufacturing and engineering technology programs. To do so, MatEd seeks to provide a set of **Teaching Modules** that instructors can use to insert these concepts into their existing classes.

The term "**Teaching Module**" is used to indicate to the instructor that the module is for the teacher to use, and that it is not a self-contained student learning module. The ideal module requires instructor action and buy-in to make it effective in student learning.

Our definition of a **Teaching Module** is one that includes:

- One or more learning objects with measurable student learning objectives
- Information on how to use it in the classroom within the context of existing classes
- Information on why it was developed and why it is important
- Means of assessing student outcomes

In addition the module should encompass a reasonably limited amount of computer space to make it easy to download.

Module timing provides up to 15 minutes of classroom presentation with a total class time of up to 45 minutes including student activities and assessment.

Modules may include the following:

- video clips
- classroom activities
- examples
- applications
- case studies
- opportunities
- classroom interactions among students
- follow-up projects

Our goal is to provide a focused set of innovative modules that will ensure student understanding of basic core competencies in materials technology.

Overall, each module aims at making the instructor's job easier by presenting a fully tested and reviewed set of educational material that will not take too much preparation time and that will work as advertised in the classroom.