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to Engineering Design  
Engineering design is  
the process of devising  
a system, component,  
or process to meet  
desired needs. It is a  
decision-making  
process (often  
iterative), in which the  
basic science and  
mathematics and  
engineering sciences  
are applied to convert  
resources optimally to  
meet a stated  
objective. Engineering

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experiences and solve  
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process of designing  
parts, components, or  
products with the  
understanding  
surrounding design  
requirements for a  
specific manufacturing  
method. This course  
explores the design for  
manufacture workflow  
and shows how to  
validate models and  
create the G code, the

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programming language  
needed to instruct the  
CNC machine on how  
to move.

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The first, an  
introduction to  
engineering, begins  
with a description and  
breakdown of the  
engineering profession.  
Material concerning  
most disciplines in

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engineering is included  
in this section.

Engineering design is  
also introduced in this  
section, providing an  
opportunity to  
investigate the  
"essence of  
engineering" in a  
holistic manner.

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