TMFG 5133  Automated Manufacturing Systems
3 Credit Hours. 0.2 Lecture Hours. 0.3 Lab Hours.
Computer Integrated Manufacturing (CIM) concentrating on advanced
computer numerical control machining, and the interface of robotics
systems in manufacturing. Experiences using programming techniques,
production equipment simulations and rapid prototyping are emphasized.
Prerequisite(s): ENGR 1133.
Cross Listing(s): TMFG 5133G.

TMFG 5230  International Manufacturing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
A study of opportunities, issues, and problems involved in manufacturing
products for import and export, and in dealing with global suppliers of
materials, parts, and assemblies. Focus is on those aspects unique to
the management of technical operations, such as ISO (International
Organization for Standardization) quality standards, scheduling, and
technology transfer. Additional topics may include transportation, customs
documentation, global trends and trade policies, and cultural issues.
Cross Listing(s): TMFG 5230G.

TMFG 5233  Manufacturing Applications in Information Technology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
A senior level seminar emphasizing the application of commercially
available software to solve manufacturing production problems. Topics
include Theory of Constraints, Failure Mode and Effect Analysis, Flow
Charting, and Project Management.
Cross Listing(s): TMFG 5233G.

TMFG 5133G  Automated Manufacturing Systems
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
Computer Integrated Manufacturing (CIM) concentrating on advanced
computer numerical control machining, and the interface of robotics
systems in manufacturing. Experiences using programming techniques,
production equipment simulations and rapid prototyping are emphasized.
Graduate students will be given an extra assignment determined by the
instructor that undergraduates will not be required to do.
Prerequisite(s): ENGR 1133.
Cross Listing(s): TMFG 5133.

TMFG 5230G  International Manufacturing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
A study of opportunities, issues, and problems involved in manufacturing
products for import and export, and in dealing with global suppliers of
materials, parts, and assemblies. Focus is on those aspects unique to
the management of technical operations, such as ISO (International
Organization for Standardization) quality standards, scheduling, and
technology transfer. Additional topics may include transportation, customs
documentation, global trends and trade policies, and cultural issues.
Graduate students will be given an extra assignment determined by the
instructor that undergraduates will not be required to do.
Cross Listing(s): TMFG 5230.

TMFG 5233G  Manufacturing Applications in Information Technology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
A senior level seminar emphasizing the application of commercially
available software to solve manufacturing production problems. Topics
include Theory of Constraints, Failure Mode and Effect Analysis, Flow
Charting, and Project Management. Graduate students will be given an
extra assignment determined by the instructor that undergraduates will not
be required to do.
Cross Listing(s): TMFG 5233.