

BGSU Firelands

2009 - 2010 Mechanical Design

Associate of Applied Science in

Industrial Technology

DRAFT

Students are responsible for adhering to all college and university requirements and policies as stated in the BGSU Undergraduate Catalog. Pre-requisites shown below are for reference only.

Communications		Pre-Req	Cr	T	G
English 112 is required. Based on placement scores, ENG 110 or ENG 111 may also be required. No more than 6 hours of ENG 110/111/112 count toward graduation. IPC 102 or 306 is also required.					
ENG 110 <i>or</i>	Developmental Writing	placement	5		
ENG 111	Introductory Writing		3		
ENG 112	Varieties of Writing		3		
IPC 306 <i>or</i>	Interpersonal Communication		3		
IPC 102	Speech Communication				

Mathematics, Science, Computers					
MATH 128 or equivalent is required. Based on Placement tests, MATH 090 and/or MATH 095 may be advised. MATH 090 and MATH 095 do not count for graduation.					
MATH 090	Elementary Algebra	placement	3		
MATH 095	Intermediate Algebra		3		
MATH 112 <i>and</i>	College Algebra I	placement	3		
MATH 122 <i>and</i>	College Algebra II	MATH 112	3		
MATH 129	Trigonometry	MATH 122	2		
OR					
MATH 120 <i>and</i>	College Algebra		5		
MATH 129	Trigonometry	MATH 120	2		
OR					
MATH 128	Precalculus Math	placement	5		
STAT 200	Using Statistics		3		
PHYS 201	College Physics I	Algebra & Trigonometry	5		
CS 101 <i>or</i>	Introduction to Programming	MATH 095	3		
MIS 200	Introduction to MIS				

BG Perspective Core Curriculum					
ECON 200 or 202 is required. Also select one course from the list of approved courses in the BG Perspective Core Curriculum listed in the BGSU Undergraduate Catalog.					
ECON		See catalog			

Student name _____

BGSU ID _____

Student e-mail _____

Advisor: **Dr. Haoyu Wang** _____

e-mail: **haoyuw@bgsu.edu** _____

office: **152 North Building** _____

Manufacturing Core		Pre-Req	Cr	T	G
MFG 126	Basic Metrology		1		
ENGT 220	Metallic Materials and Processes	see advisor	3		
MFG 240 <i>or</i>	CNC Programming & Machining	ENGT 220 in major	3		
ENGT 345	Plastics & Composite Materials & Processes				
QS 265	Introduction to Lean Processes/Systems		3		
QS 360	Six Sigma Systems	QS 265 & STAT 200	3		

Engineering Graphics Core					
DESN 104	Design and Engineering Graphics I		3		
ENGT 110	Basic Computer-Aided Design	see adviser	3		
ENGT 210	Solid Modeling	ENGT 110	3		
ENGT 215	Descriptive Geometry and Production Drawing	ENGT 210	3		

Mechanical Design Major					
ENGT 315	Three-Dimensional Parametric Modeling	ENGT 215	3		
ENGT 300	Mechanical Design	ENGT 215 & ENGT 220	3		
ENGT 350	Metrology and GD&T	ENGT 215 & ENGT 220	3		
ENGT 230	Fluid Power Transmission	MATH 112 & ENGT 220	3		
ENGT 240 <i>or</i>	Statics & Strength of Materials	see advisor	3		
MFG 400	Materials, Properties, & Heat Treatment	ENGT 220			

Other Courses (not required)					
ENG 388	Introductory Technical Writing	junior standing			

MFG 112, 220, 227 and DESN 131, 203, and 204 are applicable to the degree program. See advisor for details.

Each student must complete a sufficient number of electives to earn a minimum of 62 semester hours. At least 15 hours must be completed at BGSU immediately before graduation. Please check with your advisor for appropriate course selections.

PROGRAM PLANNER - Mechanical Design Major

	Fall	Spring	Summer	Fall	Spring	
Communication						
Math, Science						
Computers						
BG Perspective						
Manufacturing	MFG 126 ENGT 220			MFG 240 or ENGT 345		
Industrial Management	QS 265	STAT 200			QS 360	
Design	DESN 104			ENGT 215 ENGT 350	ENGT 300 ENGT 240 or MFG 400 ENGT 230	
CAD	ENGT 110	ENGT 210		ENGT 315		
TOTAL CREDITS						

ADVISER'S NOTES:

Each student must complete a sufficient number of electives to earn a minimum of 62 semester hours. At least 15 hours must be completed at BGSU immediately before graduation. Please check with your adviser for appropriate course selections.

Students are responsible for adhering to all college and university requirements and policies as stated in the on-line BGSU UNDERGRADUATE CATALOG at: www.bgsu.edu/catalog