

# BGSU Firelands

## 2009-2010 Mechanical Design

Associate of Applied Science in  
Industrial Technology

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
GSW 1120 is required. Based on placement scores, GSW 1100 or GSW 1110 may also be required. No more than 6 hours of GSW 1100/1110/1120 count toward graduation. IPC 1020 or 3060 is also required.				
GSW 1100 or GSW 1110	Intensive Intro. to Academic Writing Intro. to Academic Writing	placement	5	
GSW 1120	Academic Writing		3	
IPC 3060 or IPC 1020	Interpersonal Communication Speech Communication		3	

Mathematics, Science, Computers	Pre-Req	Cr	T	G
MATH 1280 or equivalent is required. Based on Placement tests, MATH 90 and/or MATH 95 may be advised. MATH 90 and MATH 95 do not count for graduation.				
MATH 90	Elementary Algebra	placement	3	
MATH 95	Intermediate Algebra		3	
MATH 1120 & MATH 1220 & MATH 1290	College Algebra I College Algebra II Trigonometry	placement	3	
		MATH 1120	3	
		MATH 1220	2	
OR				
MATH 1200 & MATH 1290	College Algebra Trigonometry		5	
		MATH 1200	2	
OR				
MATH 1280	Precalculus Math	placement	5	
STAT 2000	Using Statistics		3	
PHYS 2010	College Physics I	Algebra & Trigonometry	5	
CS 1010 or MIS 2000	Introduction to Programming Introduction to MIS	MATH 95	3	

BG Perspective Core Curriculum	Pre-Req	Cr	T	G
ECON 2000 or 2020 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 \_\_\_\_\_  
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 e-mail: **haoyuw@bgsu.edu** \_\_\_\_\_  
 office: **152 North Building** \_\_\_\_\_

Manufacturing Core	Pre-Req	Cr	T	G
MFG 1260	Basic Metrology		1	
ENGT 2200	Metallic Materials and Processes	see advisor	3	
MFG 2400 or ENGT 3450	CNC Programming & Machining Plastics & Composite Materials & Processes	ENGT 2200 in major	3	
QS 2650	Introduction to Lean Processes/Systems		3	
QS 3600	Six Sigma Systems	QS 2650 & STAT 2000	3	

Engineering Graphics Core	Pre-Req	Cr	T	G
DESN 1040	Design and Engineering Graphics I		3	
ENGT 1100	Basic Computer-Aided Design	see advisor	3	
ENGT 2100	Solid Modeling	ENGT 1100	3	
ENGT 2150	Descriptive Geometry and Production Drawing	ENGT 2100	3	

Mechanical Design Major	Pre-Req	Cr	T	G
ENGT 3150	Three-Dimensional Parametric Modeling	ENGT 2150	3	
ENGT 3000	Mechanical Design	ENGT 2150 & ENGT 2200	3	
ENGT 3500	Metrology and GD&T	ENGT 2150 & ENGT 2200	3	
ENGT 2300	Fluid Power Transmission	MATH 1120 & ENGT 2200	3	
ENGT 2400 or MFG 4000	Statics & Strength of Materials Materials, Properties, & Heat Treatment	see advisor ENGT 2200	3	

Other Courses (not required)	Pre-Req	Cr	T	G
ENG 3880	Introductory Technical Writing	junior standing		

MFG 1120, 2200, 2270 and DESN 1310, 2030, and 2040 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 credit hours must be BGSU courses. Please check with your advisor for appropriate course selections.

(Effective starting Fall 2009)

## PROGRAM PLANNER - Mechanical Design Major

	Fall	Spring	Summer	Fall	Spring		
Communication							
Math, Science							
Computers							
BG Perspective							
Manufacturing	MFG 1260 ENGT 2200			MFG 2400 or ENGT 2450			
Industrial Management	QS 2650	STAT 200			QS 3600		
Design	DESN 1040			ENGT 2150  ENGT 3500	ENGT 3000  ENGT 2400 or MFG 4000  ENGT 2300		
CAD	ENGT 1100	ENGT 2100		ENGT 3150			
<b>TOTAL CREDITS</b>							

### ADVISOR'S NOTES:

Each student must complete a sufficient number of electives to earn a minimum of 62 semester hours. At least 15 credit hours must be BGSU courses. Please check with your advisor 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](http://www.bgsu.edu/catalog)