

BGSU Firelands

2008 - 2009 Mechanical Design

Associate of Applied Science in
Industrial Technology

Note: When viewing on-line, click any underlined course prefix to display current course descriptions (may not be available in some browsers).

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	Pre-Req	Cr	T	G
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	Pre-Req	Cr	T	G
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 _____
 PID # _____
 Student e-mail _____
 Adviser: **Dr. Haoyu Wang** _____
 e-mail: **haoyuw@bgnet.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	3		
ENGT 345 Plastics & Composite Materials & Processes	in major			
QS 265 Introduction to Lean Processes/Systems		3		
QS 360 Six Sigma Systems	QS 265 & STAT 200	3		

Engineering Graphics Core	Pre-Req	Cr	T	G
DESN 104 Design and Engineering Graphics I		3		
ENGT 110 Basic Computer-Aided Design	see advisor	3		
ENGT 210 Solid Modeling	ENGT 110	3		
ENGT 215 Descriptive Geometry and Production Drawing	ENGT 210	3		

Mechanical Design Major	Pre-Req	Cr	T	G
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)	Pre-Req	Cr	T	G
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 adviser for appropriate course selections.

03/13/07 (Effective starting Fall 2008)

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:

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