

Industrial Management and Applied Engineering Technology, B.S. with a Certificate in Business Administration

Accredited by the Association of Technology, Management and Applied Engineering (ATMAE)

Course	Title	Semester Credit Hours
Freshman Year		
Semester 1		
ENGL 1301	Rhetoric and Composition	3
ITEN 1311	Technical CAD	3
ITEN 1315	Intro to Manufacturing Process	3
GEEN 1201	Engineering as a Career ¹	2
Select one of the following:		3
MATH 1314	College Algebra	
MATH 1316	Trigonometry	
MATH 1324	Math for Bus and Econ I	
MATH 1325	Math for Bus and Econ II	
Semester Credit Hours		14
Semester 2		
ENGL 1302	Rhetoric and Composition	3
HIST 1301	American History to 1877	3
Lang/Phil/Culture		3
Select one of the following:		3
MATH 1314	College Algebra	
MATH 1316	Trigonometry	
MATH 1324	Math for Bus and Econ I	
MATH 1325	Math for Bus and Econ II	
Select one of the following:		3
PHYS 1301 & PHYS 1101	College Physics I and Coll Physics I Laboratory	
PHYS 1375	Physics	
PHYS 2325 & PHYS 2125	University Physics I and University Physics I Lab	
Semester Credit Hours		15
Sophomore Year		
Semester 1		
HIST 1302	American History since 1877	3
ISYS 1301	Personal Computer Applications	3
ITEN 2330	OSHA for General Industry	3
POLS 2301	Government and Politics of US	3
Select one of the following:		4
CHEM 1311 & CHEM 1111	Gen Inorganic Chemistry I and Gen Inorganic Chem Lab I	
CHEM 1405	General Introd to Chemistry	
Semester Credit Hours		16
Semester 2		
ITEN 2301	Industrial Electronics	3
ITEN 2322	Measurements and Materials	3
Business Elective (p. 3)		3

Communications		3
Creative arts		3
Semester Credit Hours		15
Junior Year		
Semester 1		
ACCT 2301	Principles of Accounting I	3
ECON 2301	Principles of Macroeconomics	3
ITEN 3306	Manufacturing Processes	3
ITEN 3331	Construction Technology	3
POLS 2302	Government and Politics of TX	3
Semester Credit Hours		15
Semester 2		
ITEN 3313	Energy Systems	3
MGMT 3322	Principles of Management	3
Elective		3
Elective		3
ITEN, adv. (p. 3)		3
Semester Credit Hours		15
Senior Year		
Semester 1		
ITEN 3323	Cost Estimating	3
ITEN 3349	Lean Production (WI)	3
ITEN 4352	Quality Assurance	3
ITEN, adv. (p. 3)		3
Select one of the following:		3
ITEN, adv. (p. 3)		
Business, adv. (p. 3)		
Semester Credit Hours		15
Semester 2		
ITEN 4336	Industrial Employment Research	3
ITEN 4332	Hazardous Waste and Fire Safe	3
ITEN 4340	Leadership and Supervision	3
ITEN, adv. (p. 3)		3
Select one of the following:		3
ITEN, adv. (p. 3)		
Business, adv. (p. 3)		
Semester Credit Hours		15
Total Credit Hours Required:		120

¹ Pre-Engineering (PPEN) students and Alternate Pre-Engineering (APEN) students are required to complete UNIV 1201 instead of GEEN 1201.

Notes:

IAEN majors must complete at least 6 credit hours of program specific Math/Science courses and possess a Math/Science GPA of 2.0 before any ITEN 3000-4000 level courses can be scheduled.

By completing the following, IAEN majors earn a Certificate in Business Administration:

Code	Title	Semester Credit Hours
ACCT 2301	Principles of Accounting I	3
ECON 2301	Principles of Macroeconomics	3

MGMT 3322	Principles of Management	3
Approved Business Elective		3

ITEN, adv.

Chosen from the following:

Code	Title	Semester Credit Hours
ITEN 3308		3
ITEN 3310	Fluid Power	3
ITEN 3311		3
ITEN 3315		3
ITEN 3321	Architectural CAD	3
ITEN 3324		3
ITEN 3326		3
ITEN 3333	Industrial Scheduling	3
ITEN 3336	Industrial Hygiene I	3
ITEN 3338	Industrial Hygiene II	3
ITEN 3345	Advanced Graphics and Modeling	3
ITEN 3352		3
ITEN 3399		3
ITEN 4303		3
ITEN 4330	Manufacturing Systems	3
ITEN 4353	Construction Management	3
ITEN 4362		3
ITEN 4399		3

Business, adv.

IAEN majors who elect to complete advanced business electives instead of advanced ITEN electives (maximum of two), with the intent of fulfilling Minor in Business Administration requirements, must complete ISYS 3358 and one of the following courses:

Code	Title	Semester Credit Hours
BCOM 3306	Business Communication (WI)	3
BUAD 3355	Business Statistics	3
MGMT 3325	Human Resource Management	3
MKTG 3324	Principles of Marketing	3

Business Elective

Code	Title	Semester Credit Hours
Select one of the following:		
ACCT 2302	Prnc of Accounting II	
BCOM 3306	Business Communication (WI)	
BUAD 2341	Business Law	
BUAD 2374	International Business	
BUAD 3355	Business Statistics	
ECON 2302	Principles of Microeconomics	
FINC 2331		

MGMT 3325 Human Resource Management

MKTG 3324 Principles of Marketing