

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		
Rhetoric & 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		
Rhetoric & Composition		3
American History		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 1305	Elementary Physics	
PHYS 2325 & PHYS 2125	University Physics I and University Physics I Lab	
Semester Credit Hours		15
Sophomore Year		
Semester 1		
American History		3
Component Option B ²		3
ITEN 2330	OSHA for General Industry	3
Government/Political Science		3
CHEM 1311 & CHEM 1111 or CHEM 1405	General Chemistry I or Introductory Chemistry I	4
Semester Credit Hours		16
Semester 2		
ITEN 2301	Industrial Electronics	3
ITEN 2322	Measurements and Materials	3
Business Elective (p. 3)		3
Communication		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
Government/Political Science		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.

² ENGL 2311 or BUAD 2374 is strongly recommended.

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 3310	Fluid Power	3
ITEN 3321	Architectural CAD	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 4330	Manufacturing Systems	3
ITEN 4353	Construction Management	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 compete 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	
MGMT 3325	Human Resource Management	
MKTG 3324	Principles of Marketing	