UNIVERSITY of ARKANSAS AT PINE BLUFF
1873

INDUSTRIAL TECHNOLOGY MANAGEMENT & APPLIED ENGINEERING

ATMAE Accredited

Your Bachelor of Science Degree in

Industrial Technology Management & Applied Engineering

from the

University of Arkansas at Pine Bluff

is

Where Opportunity Meets Success!

TECHNICAL MANAGEMENT & APPLIED ENGINEERING CONTENT

Construction Management

Computer Applications

Robotics Programming

Electronics and Microprocessors

Industrial Systems and Design

Manufacturing and Automation

Quality Control

Supply Chain

Logistics

Ergonomics

Project Management

Email us at: itmae@uapb.edu

Get enrolled in Industrial Technology Management & Applied Engineering by Contacting our Faculty

CHARLES R. COLEN, JR., PH.D. (870)575-8880
ELECTRONICS AND QUALITY
colenc@uapb.edu

O.C. DUFFY, JR., M.S. (870)575-8880
SAFETY AND CONSTRUCTION MANAGEMENT duffyoc@uapb.edu

LATISHA SANDERS (870)575-8892
MANUFACTURING AND CONSTRUCTION MANAGEMENT sandersla@uapb.edu

SEYED TAGHAVI, PH.D. (870)575-8886
ELECTRONICS AND COMPUTER HARDWARE
taghavis@uapb.edu

RON WOODS (870)575-8887
DESIGN AND SOLID MODELING
woodsr@uapb.edu

FELICIA WEBB, M.S. (870)575-8876
MANUFACTURING AND AUTOMATION
webbf@uapb.edu

Industrial Technology Management & Applied Engineering

The Industrial Technology Management & Applied Engineering (ITMAE) at UAPB is ranked as one of the top 5 majors of choice. The Department is accredited by the Association of Technology, Management and Applied Engineering (ATMAE). The top five ranking is largely due to the team effort of the students enrolled in the program, faculty members and the University family atmosphere. ITMAE at the University of Arkansas at Pine Bluff provides preparation for a great number of career opportunities that are available, for those students who equip themselves with a degree from our nationally accredited program!

- The career choices for an ITMAE graduate are unlimited and often unknown! Employers of our graduates have stated *"You should reserve a position for an ITMAE graduate because their curriculum provides them with the most diverse set of skills needed within your organization."* Some of our graduates job titles are: Field Safety Engineer, Production Manager, Electronics Designer, Quality Manager, Operations Engineer, Supply Chain Manager, Construction Estimator, Productions Operations Manager, Design Engineer, Project Engineer, Logistics/Supply Chain Manager and Manufacturing Engineer to name a few! Those students who have graduated and will graduate with a grade point average of 3.00 and above are starting with annual salaries ranging between $45K-$90K (up to $100K with overtime) annually. UAPB Industrial Technology Management & Applied Engineering Graduates placement rate six months after graduation is above 90%. With new companies continuously seeking our graduates for internships, cooperative education experiences and permanent employment, the average starting salary for ITMAE graduates is expected to constantly rise!

- The Industrial Technology Management & Applied Engineering Department offers scholarships, summer internships, cooperative education experiences and the possibility to attend national conferences each year for students.

- *Frequently asked questions by students inquiring about the Industrial Technology Management & Applied Engineering major are as follows:*

1. WHAT TYPE OF WORK DO YOU PERFORM WITHIN INDUSTRIAL TECHNOLOGY MANAGEMENT & APPLIED ENGINEERING? ANSWER-
   - ✓ **Study and Implement methods to design and manufacture any product**
   - ✓ **Examine Quality and Safety issues involved in product design and production**
   - ✓ **Determine how electronic components work in theory as well as applying theory to hands-on laboratories to be utilized in various applications such as Robotics, PLC and Computer Systems**
   - ✓ **Determine how to improve the Quality and Cost Efficiency of a product**
   - ✓ **Analyze the cost of developing a product and process**
   - ✓ **Determine how to manage, estimate and schedule projects**
   - ✓ **Determine how to integrate computer software applications to increase manufacturing efficiency**
   - ✓ **DETERMINE HOW TO SAVE COMPANIES MONEY!**
2. DO YOU HAVE TO WORK IN A DIRTY ENVIRONMENT? ANSWER- **No, most of our graduates spend their time in an office designing, analyzing and planning improvements for their employer.**
3. WHAT ARE SOME OF THE BASIC APPLICATIONS ONE SHOULD HAVE AN INTEREST IN IF THEY ARE CONSIDERING A CAREER IN INDUSTRIAL TECHNOLOGY MANAGEMENT & APPLIED ENGINEERING (ITMAE) ? ANSWER- **A student should have an interest in problem solving utilizing computer applications to improve design, quality, safety, processes and productivity. A student should enjoy working in laboratories and utilizing their hands in conjunction with their minds to solve complex problems. A student should be interested in being a leader, a manager, analytical-thinker and willing to communicate with teams to improve overall performance.**
4. STUDENTS MAJORING IN ITMAE WERE CONSIDERING MAJORS IN WHAT OTHER AREAS? ANSWER- **Some of the students majoring in Computer Science, Engineering, Mathematics, Biology and Business.**

"I am sure that an ITMAE Graduate is the most versatile product being developed. We are the Total Package." **Quote from Cornelius 'C.C.' Lamberth, Jr., Owner CoMor Corporation, Greensboro, NC.**

UNIVERSITY of ARKANSAS AT PINE BLUFF 1873

INDUSTRIAL TECHNOLOGY MANAGEMENT & APPLIED ENGINEERING DEGREE

Curriculum and Advisement Sheet **Office phone: 870-575-8880**

NAME	Classification: ( )FR ( ) SO ( ) JR ( ) SR ( ) SP
Last First MI	

Local Phone Number: _____ _____

Hours Completed:_____/_____/_____/_____
1st yr 2nd yr 3rd yr 4th yr

STUDENT ID#: _____ **Date** _____/_____/_____ **Advisor**_____

GENERAL EDUCATION REQUIREMENTS (47 HRS)	Credit Hours	INDUSTRIAL TECHNOLOGY REQUIREMENTS	Credit Hours
1.COMMUNICATION	**12**	**MATHEMATICS**	**13**
___English Composition ENGL 1311	3	___Statistics MATH 2370	3
___English Composition ENGL 1321	3	___Chemistry CHEM 1430 or Gen. Physics PHYS 2410/2420	4
___Oral Communication MCOM 2390	3	___Comp. Science CPSC 2363 (Business Programming)	3
___Intro to Lit. ENGL 2300 or World Lit ENGL 2360 or 2361	3	___Comp. Science CPSC 2344 (Local Area Networking LAN)	3
2. NATURAL SCIENCE & MATHEMATICS	**13**		
___Physical Science 1411 or Chemistry CHEM 1430 or General Physics I or II PHYS 2410/2420 or Chemistry CHEM 1410	4		
___Biological Science BIOL 1450	4	**MANAGEMENT**	**24**
___Pre-Calculus MATH 1550	5	___Industrial Safety Management TECH 1201	2
3. HUMANITIES	**6**	___Supply Chain / Inventory Management TECH 3307 or 3306	3
___Humanities HUMN 2301 or Logic HUMN 2340	3	___Motion/Time & Ergonomics TECH 3310	3
___Music MUSI 2330 or Art Appreciation ART 2340	3	___Quality Control TECH 4307	3
4. SOCIAL SCIENCE	**9**	___Technical Writing JOUR 3350	3
___U.S. History HIST 2315 or 2318 or Amer. Govt. PSCI 2312	3	___Principles of Management MGMT 3300	3
___Economics I ECON 2310	3	___ Estimating & Scheduling /Project Mgmt. TECH 4320 & ___Human Resource Management MGMT 3318 or	3
___Economics II ECON 2320	3	___ Prod/Oper/Mgmt MGMT 4315	3
		___ Coop Seminar TECH 2100	1
5. Health & Physical Education	**4**		
___Physical Education HLPE 11__ __	1	**INDUSTRIAL TECHNICAL CORE**	**27**
___Personal Health & Safety HLPE 1310	3	***ELECTRONICS***	9
6. Institutional Req.	**3**	___Electronic Fundamentals TECH 1332	3
___Personal & Social Dev. BAS 1210	2	___Electronic Devices TECH 2333	3
___Career & Life Planning BAS 1120	1	___Digital Electronics TECH 3337	3
Substitutions & Transfer Courses		***MANUFACTURING***	9
		___Introduction to Manufacturing TECH 1360	3
		___Robotics TECH 2309	3
		___Automation/Production Systems TECH 4366	3
		INDUSTRIAL SYSTEMS & DESIGN	*9*
		___Engineering Graphics TECH 1302	3
		___Fluid Power Systems TECH 4372	3
		___Senior Project TECH 4342	3

TECHNICAL ELECTIVES **9**

Construction Management		Electronics		Manufacturing		Design	
___Materials, Construction Proc. and Practices TECH 1320	3	___Circuit Analysis I TECH 2335	3	___Manufacturing Process of Materials Assembly TECH 2367	3	___ Architectural Design TECH 2303	**3**
___Strength of Materials TECH 2308	3	___Computer Service and Repair TECH 3339	3	___Alternative Energy TECH 3399	3	___ Plant Layout (Facilities Planning) TECH 3363	**3**
___ Site Planning & Layout TECH 2315	3	___Microprocessor Application TECH 4338	3	___Logistics TECH 4310	3	___ Advance Design TECH 3302	**3**
___ Codes, Specs & Law TECH 2321	3	___Computer Hardware TECH 4341	3	___Computer Aided Manufacturing TECH 4370	3	___ Capstone Design TECH 4302*	**3**

The following internship/coop courses may be used for 3 credit hours of technical electives: TECH 2600, TECH 2601, TECH 2602,TECH 3600,TECH 3601, TECH 4300, MATH 2600 and MATH 2601; The following courses may also be used for technical electives: CPSC 2300, CPSC 2322, CPSC 3300 CPSC 3341 and CPSC 3362

Total Credits 120

INDUSTRIAL TECHNOLOGY MANAGEMENT & APPLIED ENGINEERING

Your college degree should lead to a high paying career. An Industrial Technology Management & Applied Engineering Degree from the University of Arkansas at Pine Bluff does.

As a standard for Accreditation our graduates responded to our salary survey. Look at their outstanding careers and their extremely competitive salaries! Our graduate placement rate is above 90% six months after graduation. Students not only accept positions such as those listed below, some have furthered their education in graduate school!

POSITION TITLE	SALARY	DATE SURVEYED	RESPONDED BY
Sourcing Analyst Consultant	$80K	FEB-2021	email
Project/Production Manager	$75K	MAY-2019	email
Engineering Operations & Development	$70K	JUL-2019	phone
Industrial Engineering	$73K	MAY-2021	email
Utility Design	$59K	OCT-2020	email
Associate Project Manager I	$80K	JUL-2021	email
Operations LDP Technician	$76K	OCT-2021	phone
Industrial Engineer	$77K	APR - 2022	email
Technology Analyst	$75K	OCT-2021	phone
Engineering Development Program	$74K	JUN-2022	phone
Logistics Manager	$63K	SEP-2020	email
Project Engineer	$85K	AUG-2023	email
Quality Engineer	$67K	JUN-2022	email
Quality Control	$70K	DEC-2020	phone
Engineer I	$65K	NOV-2022	email
Quality Control Supervisor	$70K	DEC-2020	phone
Industrial Engineer	$77K	APR-2019	email
Consulting Analyst	$90K	MAY-2021	email
Operations Engineer	$69K	AUG-2022	email
Global Supply Chain Engineer	$65K	DEC-2020	phone
Quality Engineer	$67K	JUN-2023	email
Manufacturing Engineer	$69K	OCT-2021	email
Simulation & Modeling Engineer (Masters)	$90K	APR-2019	phone

UNIVERSITY of ARKANSAS AT PINE BLUFF 1873