

BSIE/MBA DEGREE PLAN

YEAR 1	
FALL (15 HRS)	SPRING (16 HRS)
<p>CHEM 1331 Fundamentals of Chemistry (3 hrs)</p> <p>CHEM 1111 Fundamentals of Chemistry Laboratory (1 hr)</p> <p>MATH 1431 Calculus I (4 hrs)</p> <p>Language, Philosophy & Culture Core Course (3 hrs)</p> <p>ENGI 1100 Introduction to Engineering (1 hrs)</p> <p>ENGL 1303 First Year Writing I (3 hrs)</p>	<p>ENGI 1331 Computing for Engineers (3 hrs)</p> <p>ENGL 1304 First Year Writing II (3 hrs)</p> <p>HIST 1378 or 1379 The United States since 1877 (3 hrs)</p> <p>MATH 1432 Calculus II (4 hrs)</p> <p>PHYS 1321 University Physics I (3 hrs)</p>
INTERNSHIP FOLLOWING YEAR 2	

YEAR 2	
FALL (16 HRS)	SPRING (16 HRS)
<p>INDE 2331 Computer Applications for Industrial Engineers (3 hrs)</p> <p>INDE 2333 Engineering Statistics I (3 hrs)</p> <p>MATH 2433 Calculus III (4 hrs)</p> <p>PHYS 1322 University Physics II (3 hrs)</p> <p>POLS 1336 U.S. and Texas Constitutions and Politics (3 hrs)</p>	<p>MECE 3400 Introduction to Mechanics (4 hrs)</p> <p>ENGI 2304 Technical Communications (3 hrs)</p> <p>INDE 3333 Engineering Economy I (3 hrs)</p> <p>MATH 3321 Engineering Math (3 hrs)</p> <p>U.S. & TX Constitutions & POLS Core Course (3 hrs)</p>
INTERNSHIP FOLLOWING YEAR 3	

YEAR 3	
FALL (16 HRS)	SPRING (15 HRS)
<p>INDE 3382 Stochastic Models (3 hrs)</p> <p>INDE 3364 Engineering Statistics II (3 hrs)</p> <p>INDE 3432 Manufacturing Processes (4 hrs)</p> <p>INDE 3310 Statistical Process Quality Control and Improvement (3 hrs)</p> <p>POLS 1337 U.S. and Texas Constitutions and Politics (3 hrs)</p>	<p>INDE 3362 Computer Aided Design/Manufacturing (3 hrs)</p> <p>INDE 4331 Analysis of Industrial Activities (3 hrs)</p> <p>INDE 4369 Facilities Planning and Design (3 hrs)</p> <p>INDE 3381 Linear Optimization (3 hrs)</p> <p>Visual and Performing Arts Core Course (3 hrs)</p>
INTERNSHIP FOLLOWING YEAR 3	

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YEAR 4 (BS DEGREE TOTAL:127)		YEAR 5		YEAR 5	
FALL (16 HRS)	SPRING (15 HRS)	FALL (16.5 HRS)	SPRING (16.5 HRS)	SUMMER (3 HRS)	DOUBLE COUNTED (48 HRS)
<p>INDE 4370 Discrete Event Simulation (3 hrs)</p> <p>INDE 4111 Industrial Engineering Seminar 1 hr)</p> <p>INDE 4320 Computer-Integrated Manufacturing (3 hrs)</p> <p>Social and Behavioral Science Core Course (3 hrs)</p> <p>INDE 4364 Data Analytics (3 hrs)</p> <p>ACCT 6331* Financial Accounting Analysis (3 hrs)</p>	<p>INDE 4315 Supply Chain Design and Management (3 hrs)</p> <p>INDE 4334 Engineering Systems Design (3 hrs)</p> <p>INDE 4337 Human Factor and Ergonomics (3 hrs)</p> <p>INDE 4372 Operations Control (3 hrs)</p> <p>FINA 6387* Managerial (3 hrs)</p>	<p>FINA 6A35* Managerial Finance (1.5hrs)</p> <p>SCM 6A01* Production and Operations Management (1.5hrs)</p> <p>MARK 6A61* Marketing Administration (1.5hrs)</p> <p>GENB 6A50* Business Communication (1.5hrs)</p> <p>MANA 6A83* Strategic Analysis (1.5hrs)</p> <p>MBA Elective (3 hrs)</p> <p>MBA Elective (3 hrs)</p> <p>MBA Elective (3 hrs)</p>	<p>MIS 6A41* Information Systems (1.5hrs)</p> <p>MANA 6A25* Ethical Leadership and Critical Reasoning (1.5hrs)</p> <p>MANA 6A32* Organizational Behavior & Management (1.5hrs)</p> <p>MBA Elective (3 hrs)</p> <p>MBA Elective (3 hrs)</p> <p>MBA Elective (3 hrs)</p> <p>MBA Elective (3 hrs)</p>	<p>MBA Elective (3 hrs)</p> <p>Internship (recommended)</p>	<p>ACCT 6361* Financial Accounting (3 hrs)</p> <p>FINA 6387* Managerial Analysis (3 hrs)</p> <p>INDE 2333 Engineering Statistics I (prerequisite for INDE 3364)</p> <p>INDE 3364 Engineering Statistics II (substitutes for BZAN 6310) (3 hrs)</p> <p>INDE Elective Industrial Engineering elective (3 credit hours counts as 1.5) (1.5hrs)</p> <p>INDE Elective Industrial Engineering elective (3 credit hours counts as 1.5) (1.5hrs)</p> <p style="text-align: center;">Total double-counted courses (12hrs)</p>
INTERNSHIP FOLLOWING YEAR 4					

*MBA core course

Note that MBA electives can be 1.5 or 3 credits. The outline above is one example of how the electives may be structured. Students can also take the 3 credit electives.