

BSIE/MBA SAMPLE DEGREE PLAN

YEAR 1	
FALL (17 HRS)	SPRING (16 HRS)
<p>CHEM 1372 Fundamentals of Chemistry for Engineers (3 hrs)</p> <p>CHEM 1117 Fundamentals of Chemistry for Engineers Laboratory (1 hr)</p> <p>ENGL 1303 First Year Writing (3 hrs)</p> <p>HIST 1376 or 1377 The United States to 1877 (3 hrs)</p> <p>MATH 1431 Calculus I (4 hrs)</p> <p>Humanities Core Course (3 hrs)</p>	<p>INDE 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>

YEAR 2	
FALL (16 HRS)	SPRING (16 HRS)
<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>INDE 2331 Computer Applications for Industrial Engineers (3 hrs)</p> <p>Social Science Core Class (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>POLS 1336 U.S. and Texas Constitutions and Politics (3 hrs)</p> <p>MATH 3321 Engineering Math (3 hrs)</p>
INTERNSHIP FOLLOWING YEAR 2	

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 Course (3 hrs)</p>
INTERNSHIP FOLLOWING YEAR 3	

BSIE/MBA SAMPLE DEGREE PLAN

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)
INDE 4370 Discrete Event Simulation (3 hrs)	INDE 4315 Supply Chain Design and Management (3 hrs)	FINA 6A35* Managerial Finance (1.5 hrs)	MIS 6A41* Information Systems (1.5 hrs)	MBA Elective (3 hrs)	ACCT 6361* Financial Accounting (3 hrs)
INDE 4111 Industrial Engineering Seminar (1 hr)	INDE 4334 Engineering Systems Design (3 hrs)	SCM 6A01* Production and Operations Management (1.5 hrs)	MANA 6A25* Ethical Leadership and Critical Reasoning (1.5 hrs)	Internship (recommended)	FINA 6387* Managerial Analysis (3 hrs)
INDE 4320 Computer-Integrated Manufacturing (3 hrs)	INDE 4337 Human Factors and Ergonomics (3 hrs)	MARK 6A61* Marketing Administration (1.5 hrs)	MANA 6A32* Organizational Behavior & Management (1.5 hrs)		INDE 2333 Engineering Statistics I (prerequisite for INDE 3364)
ECE 3336 Introduction to Circuits and Electronics (3 hrs)	INDE 4372 Operations Control (3 hrs)	GENB 6A50* Business Communication (1.5 hrs)	MBA Elective (3 hrs)		INDE 3364 Engineering Statistics II (substitutes for BZAN 6310) (3 hrs)
ACCT 6331* Financial Accounting (3 hrs)	FINA 6387* Managerial Analysis (3 hrs)	MANA 6A83* Strategic Analysis (1.5 hrs)	MBA Elective (3 hrs)		INDE Elective Industrial Engineering elective (3 credit hours counts as 1.5) (1.5 hrs)
		MBA Elective (3 hrs)	MBA Elective (3 hrs)		INDE Elective Industrial Engineering elective (3 credit hours counts as 1.5) (1.5 hrs)
		MBA Elective (3 hrs)	MBA Elective (3 hrs)		Total double-counted courses (12 hrs)
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.