

**Institutional Effectiveness Report
2018 19**

Program: Engineering BS

College and Department: College of Engineering – Basic Engineering

Contact: Chris Wilson

Mission: The General & Basic Engineering

Alignment of PEOs and SOs

	SO1	SO2	SO3	SO4	SO5	SO6	SO7
SO Topic	Complex problems	Engr design	Comm	Ethics and judgment	Team and project mngt	Exp and data analysis	New knowledge
PEO1: Serve	x	x	x	x		x	x
PEO2: Collaborate	x	x	x	x	x	x	x
PEO3: Grow	x		x	x	x		x

Assessment Methods:

1. ENGR 4510 – Assignment (SO7):
2. ENGR 4950 – Project Report (SO1, 2, 4, 5, 7):
3. ENGR 4960 – Project Report (SO1, 2, 3, 5, 6, 7):
4. ME 2023 – Lab Report (SO1, 6):
5. Senior Exit Survey (SO1, 2, 3, 4, 5, 6, 7):

The target is that 80% or more of the students meet

Appendix 1: Curriculum Map

BSE Assessment Plan – Course Mapping

Student Outcome		SO1	SO2	SO3	SO4	SO5	SO6	SO7
		Complex Problems	Engineering Design	Communication	Ethics and Professionalism	Teamwork and Project Management	Experimentation and Data Analysis	New Knowledge and Learning Strategies
Tenn. Tech Required Course (2020-21 Catalog)	ETSU Required Course (2020-21 Catalog)							
CEE 2110 Statics	CEE 2110 Statics	I						
ME 2330 Dynamics	ME 2330 Dynamics							I
CEE 3110 Mechanics of Materials	CEE 3110 Mechanics of Materials							I
COMM 2025 Fund. of Communication	COMM 2025 Fund. of Public Speaking			I				
ECE 2850 Principles of Electric Circuits	ECE 2010 Electric Circuits I	I						
ECE 2851 Prin. of Electric Circuits Lab	ECE 2011 Electrical Engineering Lab			I			I	
ECE 3850 Int. Prin. of Electric Circuits	ECE 2020 Electric Circuits II	I						
ENGR 1110 Engineering Graphics	ENGR 1110 Engineering Graphics			I		I		I
ENGR 1120 Programming for Engineers	ENGR 1120 Programming for Engineers							I
ENGR 3020 Numerical Methods	CSC 3020 Numerical Methods	R						
ENGR 3120 Solid Modeling	ENGR 3120 Solid Modeling		I, R			R		
ENGR 3710 Prin. Of Engr. Economy	CEE 3710 Prin. Of Engineering Econ.		I		I			
ENGR 3720 Engineering Statistics	CEE 3720 Engineering Statistics				I		I, R	
ME 3010 Materials & Processes in Mfg.	ME 3010 Materials & Processes in Mfg.				R			I
ME 3023 Measurements in Mech. Sys. ENGR 4510 Engineering	ME 3023 Measurements in Mech. Sys.	D		R			D	