Mechanical Engineering Undergraduate Program Relationship Between Curriculum & ABET Outcomes

Our program graduates will demonstrate: General BE

("E" indicates extensive address of outcome, "S" indicates substantial address of outcome & "L" indicates limited address of outcome)

Cat. No.	Description	S.H.	1 an ability to apply knowledge of math., science, and engr.	2 an ability to design & conduct experiments, as well as to analyze & interpret data.	3 an ability to design a system, component, or process to meet desired needs.	4 an ability to function on multi-disciplinary teams.	5 an ability to identify, formulate, & solve engr. problems.	6 an understanding of prof. and ethical responsibility.	7 an ability to communicate effectively.	8 the education necessary to understand the impact of engr. solutions in global/societal context.	9 a recognition of the need for an ability to engage in life-long learning.	10 a knowledge of contemporary issues.	11 an ability to use the tech., skills, & modern engr. tools necessary for engr. practice.
MECH 2603	Thermodynamics 1	3	S				S			L		L	S
MECH 2604	Thermodynamics 2	3	S		L		S	L		S		L	S
MECH 2606	Engineering Materials	3	S				S			L		L	S
MECH 2641	Dynamics	3	S				S						S
MECH 3708	Engineering Analysis	3	E		L	L	E		L				E
MECH 3720	Fluid Dynamics	3	E				S						E
MECH 3720L	Fluids Lab	1	L	E			L		E				S
MECH 3725	Heat Transfer	3	E		L		E						E
MECH 3742	Kinematics	3	E		S	L	E		L				E
MECH 3751L	Stress 1	3	E		L		E		L				E
MECH 3751L	Stress Lab	1	L	E		S	L		E		L		S
MECH 3762	Machine Design	3	E		S	S	E	L	L	L	L	L	E
MECH 3762L	Mach Des Lab	3	L	S		S	S	L	E	L	L	L	S
MECH 4808	Mech Sys Des 1	2	E		E	E	E	S	E	E	S	S	E
MECH 4808L	Mech Des Lab 1	1	L		S	S	S	S	E	E	S	S	E
MECH 4809	Mech Sys Des 2	3	E		E	E	E	E	E	E	S	S	E
MECH 4825L	Heat & Therm Lab	1	L	E		S	L	L	E	L	L	L	S
MECH 4881	Mech Vibrations	3	E		L		E				L	L	E
MECH 4881L	Vibrations Lab	1	L	E		E	L		E		L	L	S
MECH Elec	4 MECH Electives	12	E		S		E	L	S	L	L	L	E
Chem 1515	Chemistry 1	4	S				S			L			S
Phys 2610	Physics 1	4	S				S			L			S
Phys 2611	Physics 2	4	S				S			L			S
Math 1571	Calculus 1	4	S				S						S
Math 1572	Calculus 2	4	S				S						S
Math 2673	Calculus 3	4	S				S						S
Math 3705	Differetial Equations	3	S				S						S
ISEN 3710	Engr Statistics	3	S				S						S
Engr 1550	Engineering Concepts	3	S			S	S	L	L	L	L	L	S
Engr 1560	Engineering Computing	3	S			S	S	L	L				S
CEEN 2601	Statics	3	S				S						S
CEEN 2602	Strength of Materials	3	S				S						S
CEEN 2602L	Strength of Materials Lab	1	L	E					S				S
ECEN 2632	Circuits 1	3	S				S						S
Engl 1550	Writing 1	3						L	E				
Engl 1551	Writing 2	3						L	E				
CMST 1545	Speech	3						L	E				
	Artistic & Literary Perspective	3						S	L	L		L	S
	Artistic & Literary Perspective	3						S	L	L		L	S
ECON 2610	Princ 1	3						L	L	L		L	S
	Societies & Institutions	3						L	L	L		L	S
	Societies & Institutions	3						L	L	L		L	S
PHIL 2625	Prof Ethics	3						E	L	L		L	S
	Personal & Social Responsibility	3						S	L	L		L	S
	Total	134											