

**Mechanical Engineering
Program Model B**

**Admit Term
Fall 2021**

Name _____
ST# _____

Mechanical Engineering 5 year Model B				Co-op Aero Option / Stream Materials Solid Mech Thermo				
BSc(CE) Grad Date:				Minor:				Term:
FIRST YEAR 16.5 CHrs				15 CHrs				TGPA
CHEM 1100	Chemistry 1	3		ENG 1430	Eng Design	3		DGPA
CHEM 1122	Chem 1 Lab	1.5		ENG 1450	Intro Elec	3		75% Ratio
COMP 1012	Comp Prog Eng	3		ENG 1460	Thermal Sci	3		Standing
PHYS 1050	Physics	3		MATH 1210	C/L Algebra	3		Term:
ENG 1440	Eng Statics	3		MATH 1710	App Calc 2	3		TGPA
MATH 1510	App Calc 1	3						DGPA
SECOND YEAR 19.5 CHrs				17 CHrs				75% Ratio
CHEM 1110	Chemistry 2	3		MATH 2132	Math Analys 2	3		Standing
CHEM 1126	Chem 2 Lab	1.5		MECH 2202	Thermodynamics	4		Term:
MATH 2130	Math Analys 1	3		MECH 2222	Mech. Of Materials	4		TGPA
MECH 2112	C.A.D.	5		CE1 (Phil 1290 or Choice)		3		DGPA
MECH 2150	Numerical Method	4		Indigenous Crs. CE2		3		75% Ratio
WRITTEN Req.		3						Standing
THIRD YEAR 14 CHrs				16 CHrs				Term:
MATH 3132	Math Analys 3	3		MECH 3482	Kin. & Dynamics	4		TGPA
MECH 2262	Fluid Mechanics	4		MECH 3492	Fluids 2	4		DGPA
MECH 2272	Materials 1	4		MECH 3502	Stress Analysis	4		75% Ratio
ENG 2030/40	Tech Com	3		MECH 3542	Materials 2	4		Standing
FOURTH YEAR 18 CHrs				17 CHrs				Term:
ECE 3010	Digital Systems	4		STAT 2220	Eng Statistics	3		TGPA
MECH 3652	Mach Design	4		MECH 3460	Heat Transfer	4		DGPA
MECH 3420	Vibes	4		MECH 3170	Project Manageme	4		75% Ratio
MECH 3982	ME Labs Solid Mech	2		MECH 3992	ME Labs Thermo	2		Standing
TE1		4		TE2		4		Term:
FIFTH YEAR 17 CHrs				13 CHrs				TGPA
MECH 3430	Meas. & Controls	4		ENG 3000	Eng Econ	3		DGPA
MECH 4860	Eng. Design	5		ENG 3020	Tech Society	3		75% Ratio
TE3		4		PHYS 1070		3		Standing
TE4		4		TE5		4		Term:
CE Choice = 1000 level or better from the Faculty of Arts or Management (3 Chrs of Indigenous Knowledge) Indigenous Knowledge Course Options CE2: NATV 1200, NATV 1220, NATV 1240, NATAV2012/HIST 2010, NATV 2020/HIST2020, POLS 2802, POLS 3870, ENG4100 Tech Electives (TE): Need 5. MECH 3520 Aerodynamics MECH 3550 Robotics and Controls MECH 3562 Optimization MECH 3570 Mfg. Automation MECH 3582 Mfg. Qual. Control MECH 3592 Sim. Mod.& Fac. Plan MECH 4162 Thesis MECH 4182 Aerospace Structures MECH 4192 Aerospace Materials MECH 4200 Gas Turbines MECH 4240 Design Mfg. MECH 4292 IC Engines MECH 4412 HVAC MECH 4432 Systems Eng. MECH 4452 Aircraft Performance MECH 4472 Mech. Vibration MECH 4482 Applied Aero Inst. MECH 4510 F.E. A MECH 4532 Strength of Materials MECH 4542 Turbomachinery MECH 4550 Noise Control MECH 4582 Vehicle testing MECH 4620 Corrosion of Metals MECH 4672 Mechanical Design MECH 4692 Renewable Energy MECH 4702 Design of Thermal Sys. MECH 4812 Automotive Eng. MECH 4822 Numerical Heat Transfer MECH 4832 Biomaterials for Biomed. MECH 4870 Fracture and Failure MECH 4900 Mechatronics								TGPA
								DGPA
								75% Ratio
								Standing
								Term:
								TGPA
								DGPA
								75% Ratio
								Standing
Co-op WT: ENG 4800 ____ ENG 4810 ____ ENG 4820 ____ ENG 4830 ____ ENG 4840 ____								
Grad Check Completed: _____ Total Degree Hours: /160 DGPA: _____								