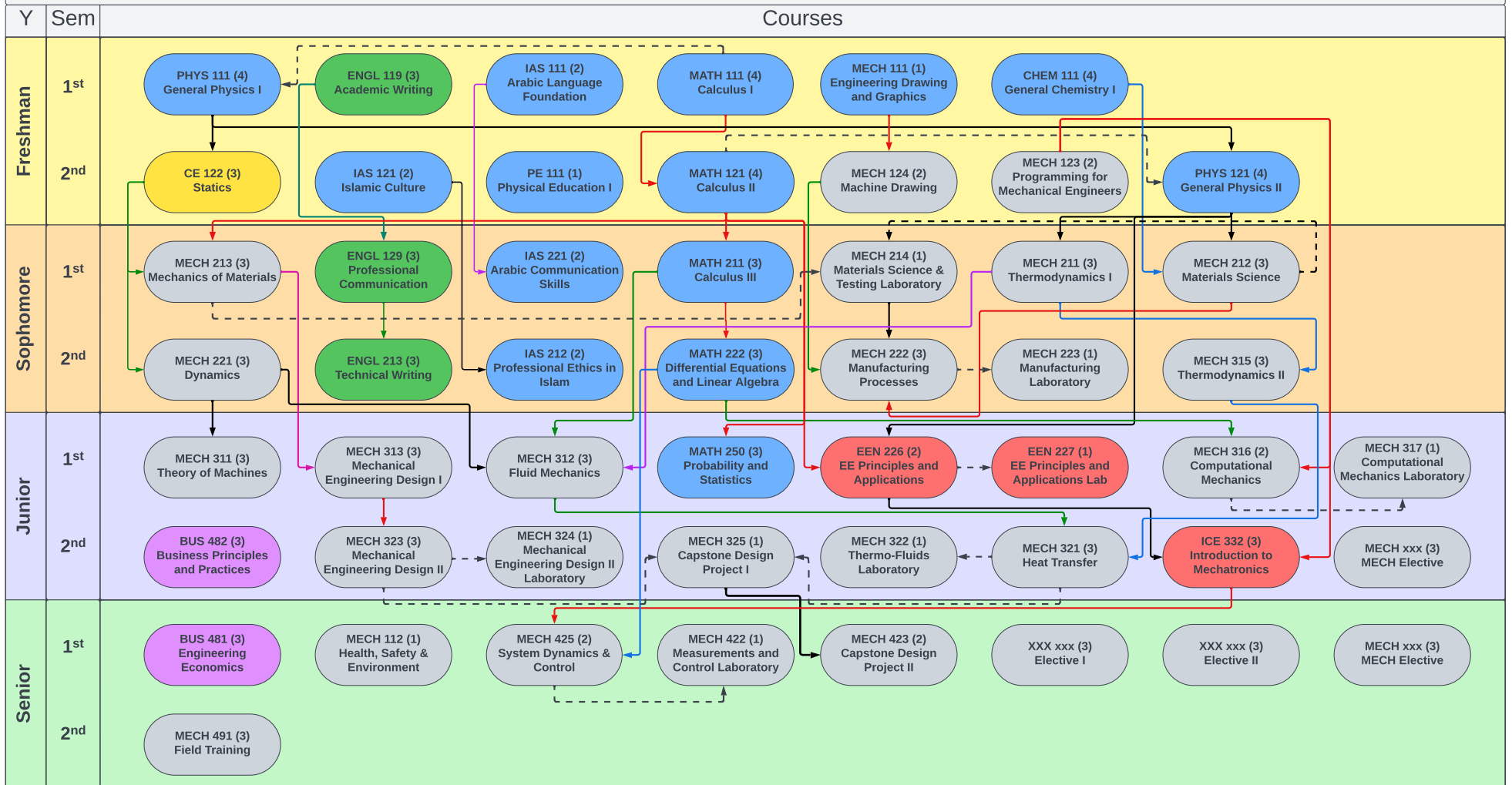


Mechanical Engineering Department

Bachelor of Science in Mechanical Engineering (Fourth Edition)



List of Elective Courses (Elective I & Elective II):

MECH 445 Solar Energy Engineering (3)	MATH 433 Operation Research (3)
MECH 446 Energy Conservation (3)	CHEM 432 Chemistry of Materials and Env. (3)
MECH 447 Maintenance Engineering (3)	CHEM 433 Green Chemistry and Engineering (3)
MECH 448 Renewable Energy Systems (3)	CHEM 434 Chemistry of Petrochemical Proc. (3)
MECH 449 Sustainable Energy Engineering (3)	PHYS 131 General Physics (3)
CHEN 434 Corrosion Engineering (3)	PHYS 212 Modern Physics (3)
CHEN 436 Water Treatment and Desalination (3)	PHYS 213 Nano Science (3)
CHEN 438 Nanomaterials (3)	CIT 233 Enterprise Resource Planning (3)
ICE 439 Principle of Automation (3)	BUS 244 Legal Environment in Business (3)
MATH 432 Engineering Mathematics (3)	

List of MECH Elective Courses:

MECH 437 Finite Element Analysis (3)	MECH 459 Energy Efficient Manufacturing (3)
MECH 438 Advanced Manufacturing Processes (3)	MECH 461 Internal Combustion Engines (3)
MECH 439 Turbomachinery (3)	MECH 462 Compressible Fluid Flow (3)
MECH 442 Pumping Machinery (3)	MECH 463 Heat Exchangers (3)
MECH 444 Fluid Power Systems (3)	MECH 464 Metallurgy (3)
MECH 451 Production Engineering (3)	MECH 465 Corrosion Engineering (3)
MECH 452 Mechanical Vibrations (3)	MECH 466 Computational Fluid Dynamics (3)
MECH 453 Energy Efficient Buildings (3)	MECH 467 Additive Manufacturing (3)
MECH 454 Energy Systems Engineering (3)	MECH 468 Air Conditioning and Refrigeration (3)
MECH 455 Building Energy Informatics (3)	MECH 469 Introduction to Fuel Cells (3)
MECH 456 Geothermal Energy Engineering (3)	MECH 471 Industrial Noise & Control (3)
MECH 457 Wind Energy Engineering (3)	MECH 472 Energy Conversion (3)
MECH 458 Design for Environment (3)	

Courses Key

- Mechanical Engineering Department
- Electrical Engineering Department
- Civil Engineering Department
- Business Department
- General Studies Department
- English Department