

Mechanical Engineering Technology- Building Sciences (MBT)

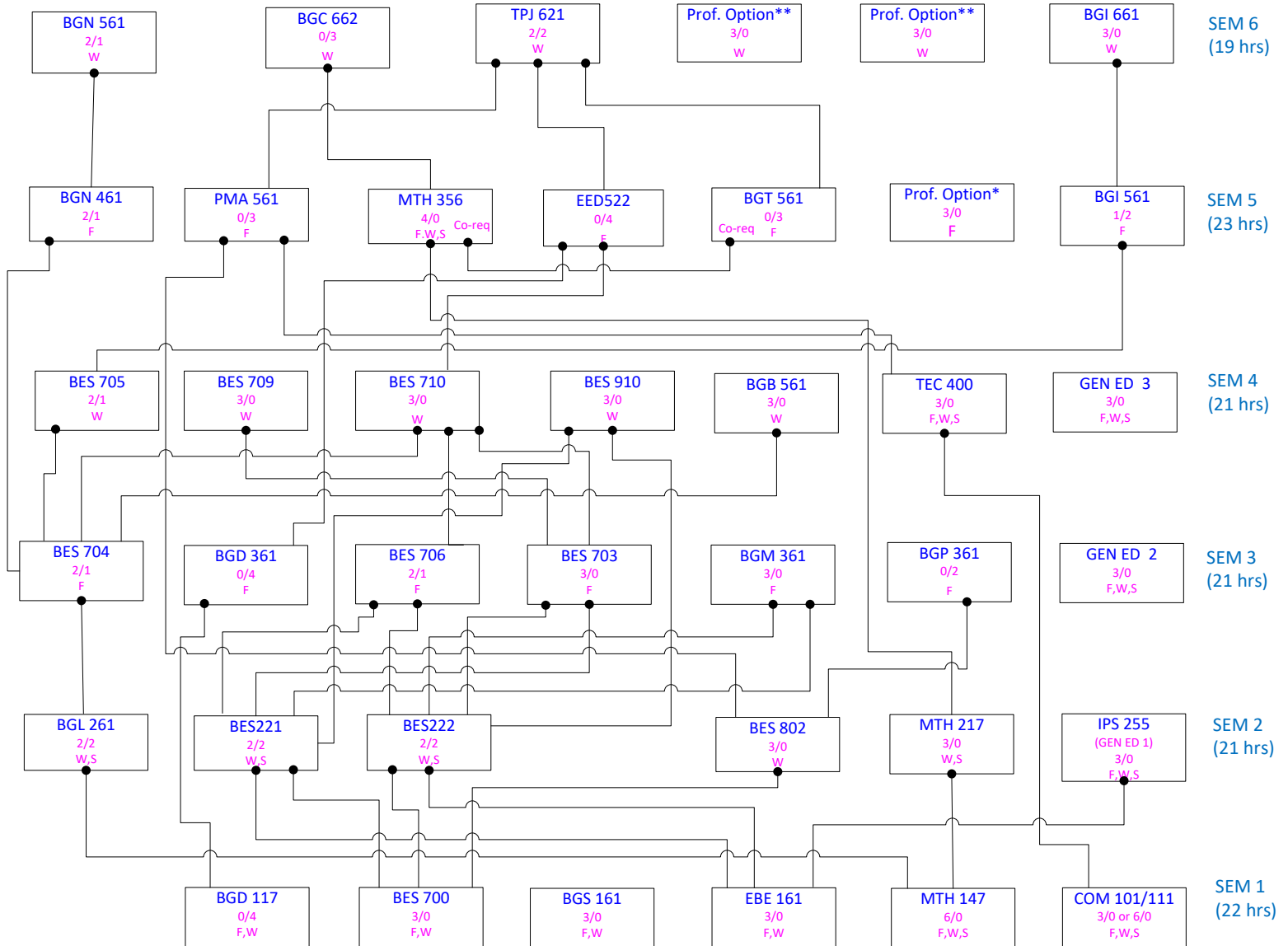
{Revised March 2, 2022}

KEY

Course Hours: x/y = x (Lecture) /y (Lab)

—●— Prerequisite

Availability: F – Fall, W – Winter, S - Summer



SEMESTER 1

BGD 117: CAD Fundamentals
BES 700: Building Systems: Practical Overview
BGS 161: Building a Sustainable Future
EBE 161: Introduction to Engineering and the Built Environment (A/I Add)
MTH 147: Mathematics 1
COM 101/111: College English

SEMESTER 2

BGL 261: Electricity Fundamentals
BES 221: Applied Heating
BES 222: Applied Air Conditioning and Refrigeration
MTH 217: Mathematics 2
IPS 255: Interpersonal Skills
BES 802: Site Maintenance and Building

SEMESTER 3

BES 704: Electrical
BGD 361: Building Systems CAD
BES 706: Water Treatment
BES 703: Air Handling
BGM 361: Codes and Regulations
BGP 361: Plumbing and Pipe Systems

SEM 1-6
(124 hrs)

SEMESTER 4

BES 705: Controls
BES 709: Hospital Building System
BES 710: Energy Efficiency – Large Buildings
TEC 400: Technical Communications
BGB 561: Fire Protection Systems and Procedures
BES 910: Energy Auditing – Large Buildings

SEMESTER 5

BGN 461: Energy Technologies
PMA 561: Project Management
BGT 561: Thermodynamics
EED522: Energy Efficiency Design (eQuest/RetScreen)
BGI 561: Intelligent and Integrated Buildings
MTH 356: Mathematics – Introductory Calculus and Statistics
***1 of Prof. Options:** MIR355, PPE655, PHY354

SEMESTER 6

TPJ 621: CAPSTONE PROJECT
BGC 662: Energy Accounting
BGI 661: Intelligent Building Systems
BGN 561: Renewable Energy Technologies
****2 of Prof. Options:** ACC101, BAM101, BES803, MEC355, PLC301, NET455
(Note: MIR355 PREQ for NET455)