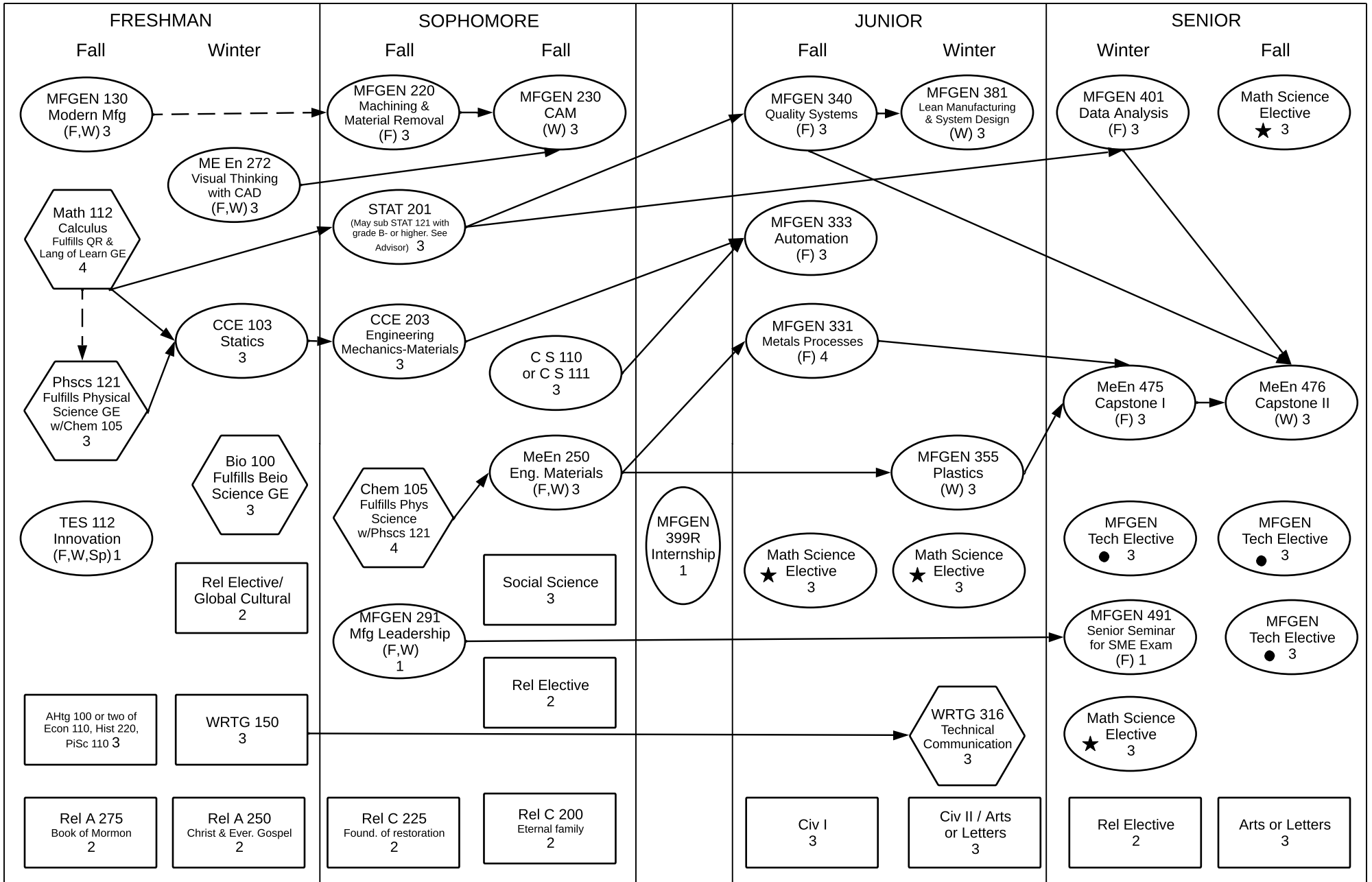


MFGEN 2023-2024



Credit Hours: 16

16

16

16

1

16

15

15

15

G.E. Classes

Major Classes

Major and G.E. Classes

Required Prerequisite
 Concurrent Enrollment at BYU with Instructor Permission

★ Math/Science Electives	
CHEM 106	MATH 334
CHEM 351	PHSCS 123
CHEM 357	STAT 462
MATH 113	STAT 466
MATH 213	STAT 511
MATH 215	STAT 512

● MFGEN Technical Electives	
Fall:	Winter:
MFGEN 431 - Tool Design	MFGEN 318 - Electronics
MFGEN 456 - Intro to Composites	MFGEN 372 - Design for X
MFGEN 481 - Manufacturing Systems & Simulation	MFGEN 433 - Intro to Smart Mfg
	MFGEN 440 - Six Sigma
	MFGEN 435 - Instrumentation of mfg

Total Credit Hours: 126

Tech Electives & Math Science Electives

Other courses may be approved by petition. Math/Science electives must be from CHEM, PHYSC, MATH and STATS categories.

Also, courses must meet the following requirements to be eligible for consideration as an MFGEN Technical or Maht/Science elective:

- Course content is applicable to the manufacturing industry and consistent with ABET standards:
 - (a) materials and manufacturing processes: design of manufacturing processes that result in products that meet specific material and other requirements;
 - (b) processes, assembly and product engineering: equipment, tooling, and environment necessary for their manufacture;
 - (c) manufacturing competitiveness: creation of competitive advantage through manufacturing planning strategy, quality, and control;
 - (d) manufacturing systems design: analyze, synthesize, and control manufacturing operations using statistical methods; and
 - (e) manufacturing laboratory or facility experience: measurement of manufacturing process variables and development of technical and inferences about the process.

MFGEN 399R Internship

This class can be added after the add/drop deadline until the discontinuance deadline. Please see your Academic Advisor for information on the Internship registraiton process.

Common Equivalents

(substitutions do not happen automatically. Please see advisement office.

CCE 103	ME EN 101
STAT 201	STAT 121 (must earn a B- or higher)
BIO 100	PWS 150, PDBIO 120, PDBIO 205, MMBIO 221
CHEM 105	CHEM 111