

BYU Mathematics:

Applied & Computational Mathematics

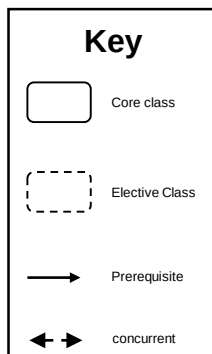
Emphasis

Requirements / Prerequisites

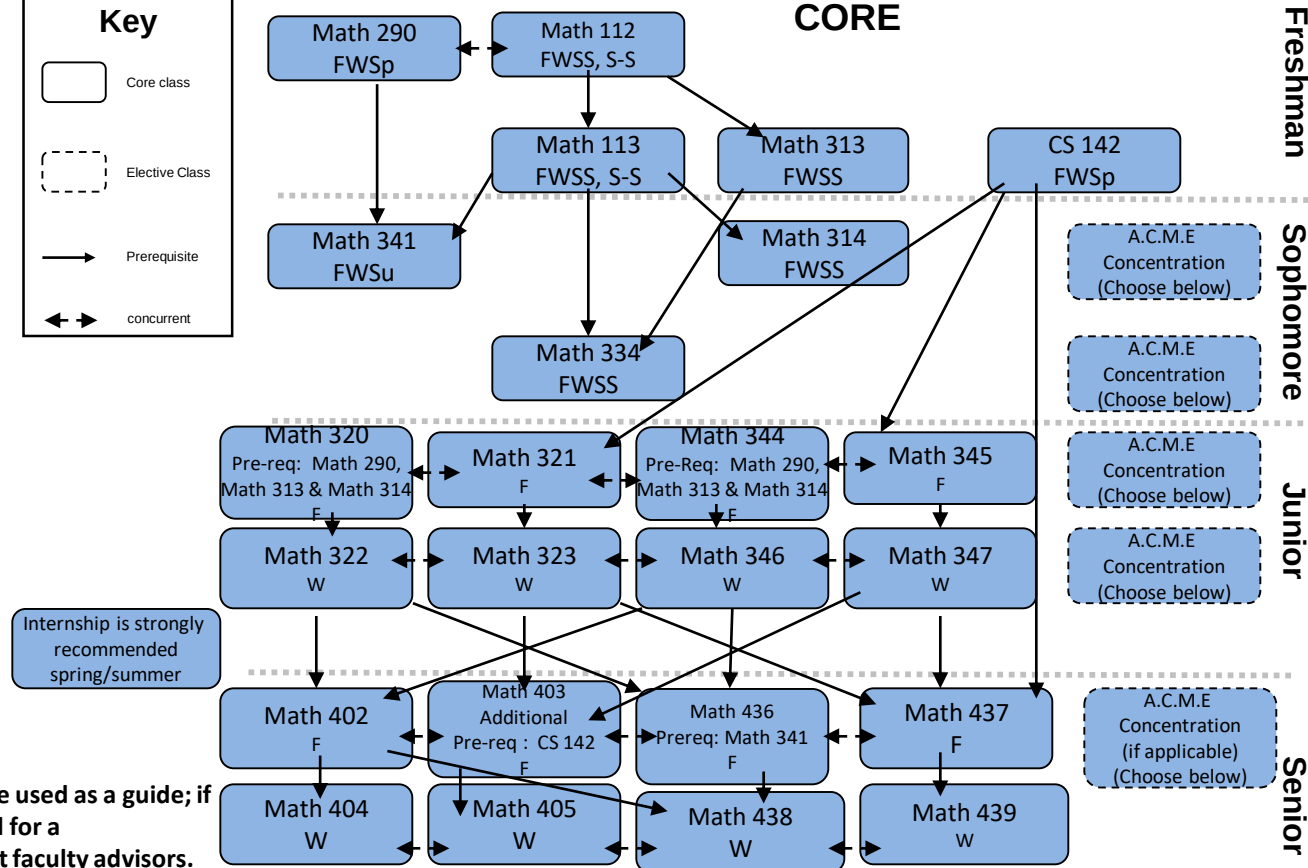
2017-2018 Academic Year

Major (70 Hours)

1. Complete the following core requirements: CS 142, Math 112, Math 113, Math 290, Math 313, Math 314, Math 334, Math 341.
2. Complete the following core courses during fall semester of junior year: Math 320, Math 321, Math 344, Math 345
3. Complete the following core courses during winter semester junior year: Math 322, Math 323, Math 346, Math 347.
5. Complete the following core requirements during fall semester of senior year: Math 402, Math 403, Math 436, Math 437.
6. An internship in the spring/summer after your junior year is strongly recommended.
7. Complete the following core classes during winter semester of senior year: Math 404, Math 405, Math 438, Math 439.
8. Complete a concentration from list found at <http://math.byu.edu/concentrations>.



CORE



Concentration lists below are used as a guide; if courses are no longer offered for a concentration, please contact faculty advisors.

Complete a Concentration

- Biology**
Biol 130, 165, MMBio 240, PWS 340
- Business Management**
ACC 200, Bus M 201, Bus M 241, & ORG B 320
- Chemical Engineering**
CH EN 273, 374, 533, 541
- Chemistry**
Chem 111H, 112, 462, 463
- Civil Engineering**
Geotechnical
CE EN 103, 203, 321, 341, 424

- Civil Engineering: Structures/Structural Mechanics**
CE EN 103, 203, 304, 306, 321, 424
- Civil Engineering: Transportation**
CE EN 103, 203, 304, 306, 341, 361
- Civil Engineering Water Resources and Environmental**
CE EN 103, 203, 332, 351; and CE EN 431 or 433
- Computer Science**
CS 142, 224, 235, 236, 240

- Economics**
Econ 380, 388, 580 & One of the following: Econ 382, 478, 581, 582, 588
- Electrical and Computer Engineering: Circuits**
EC EN 212, 313 & one of the following EC EN 443 or 445
- Electrical and Computer Engineering: Electromagnetics**
EC EN 212, 360, 362, 462 & one of the following EC EN 464 or 466

- Electrical and Computer Engineering: Signals and Systems**
EC EN 212, 370, 380 & one of the following: EC EN 483, 485, or 487
- Financial Markets**
Econ 388, Econ 380, Econ 382, Econ 450
- Geological Sciences**
Geol 111, Geol 351, Geol 352, Geol 440

- Manufacturing Systems Design**
Math 431 or Stat 201 MFG 480, 533, 580
- Mathematical Biology**
Bio 130, Math 425 & two of the following: Bio 350, 420, MMBio 240 PDBIO 360, 362, PWS 340
- Mathematical Theory**
Four of the following: Math 355, 371, 372, 450 451, 465, 473, 485, 510, 532, 534, 540, 541, 553, 554, 561, 562, 565, 586, 587

- Mechanical Engineering: Dynamic Systems**
CE EN 204, EC EN 301, ME EN 335, 431
- Mechanical Engineering: Fluids & Thermodynamics**
PHSCS 123, MC EN 312, 321, 340
- Physics**
PHSCS 121, 220 & two of the following PHSCS 222, 321, 360, 471, 441, 442, 451

- Political Science**
Econ 110, PI SC 200 & two of the following: PI SC 328, 317, 318, 344, 444
- Statistics**
One of the following: Stat 121, 251, 201, 301 Complete: Stat 230, 240, 330, 340
- Statistics: Actuarial Science**
Stat 340, Stat 372, 274, 475, 230
- Statistics: Biostatistics**
Four of the following: Stat 251, 230, 330, Hlth 345, Bio 130, MMBIO 240