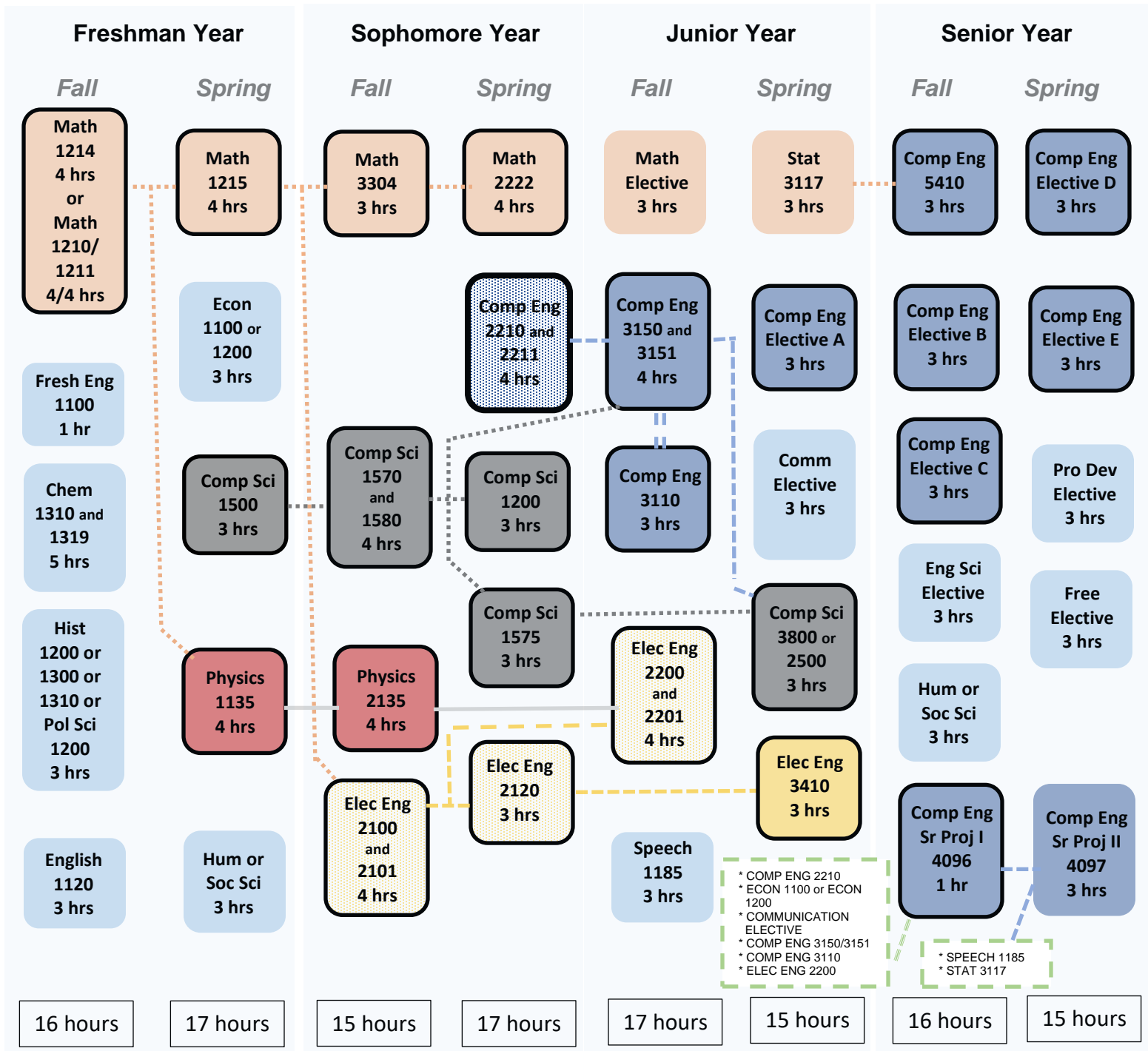


# Missouri University of Science and Technology BS CpE

## Effective Catalog Year 2024

Approved 2024



Core courses with C or better requirement
 


 Core courses with advancement exam requirement

Single line denotes prerequisite course. Double line denotes co-requisite course. Course prerequisites and Elective Requirements are listed on the following page.

If you Drop Elec Eng 2100, Elec Eng 2200, Comp Eng 2210, etc., you must also drop the co-requisite laboratories.

Disclaimer: This summary may assist students and advisors in scheduling classes. This is not a complete description of the graduation requirements for a BS Comp Eng degree. See the Missouri S&T undergraduate catalog and the Comp Eng undergraduate handbook for a complete description of graduation requirements.

## Course Prerequisites and Elective Requirements

### MATH 1215

- MATH 1214 or MATH 1210/1211

### MATH 2222

- MATH 1215

### MATH 3304

- MATH 2222

### MATH ELECTIVE

- Take one of the following courses: MATH 3108, MATH 3109, MATH 5302, MATH 5603, MATH 5105, MATH 5106, MATH 5107, MATH 5108, MATH 4209, MATH 4211, MATH 5215, MATH 5222, MATH 5325, MATH 4530, MATH 5737, MATH 5351, MATH 5154, MATH 4096, MATH 5483, MATH 5585, STAT 5644, STAT 5346, STAT 5353.

### STAT 3117

- STAT 3117 (or STAT 3115 or STAT 5643)

### COMP SCI 1570/1580

- COMP SCI 1500

### COMP SCI 1200

- COMP SCI 1570/1580

### COMP SCI 1575

- COMP SCI 1570/1580

### COMP SCI 3800 OR COMP SCI 2500

- COMP ENG 3150
- COMP SCI 1575

### PHYSICS 1135

- MATH 1214 or MATH 1210/1211

### PHYSICS 2135

- PHYSICS 1135
- MATH 1215

### ELEC ENG 2100/2101

- MATH 1215

### ELEC ENG 2120

- ELEC ENG 2100/2101
- PHYSICS 2135
- INCLUDES SOPHOMORE SEMINAR

### ELEC ENG 2200/2201

- ELEC ENG 2100/2101
- PHYSICS 2135

### ELEC ENG 3410

- ELEC ENG 2120

### ENG SCI ELECTIVE

- Take one of: MECH ENG 2340, MECH ENG 2519, MECH ENG 2527, PHYSICS 2311, PHYSICS 2401, CHEM 2210, BIO SCI 2213, BIO SCI 2223, CIV ENG 2200, MECH ENG 2350, PHYSICS 2305, PHYSICS 4311, CER ENG 4240, or NUC ENG 3205.

### COMMUNICATION (COMM) ELECTIVE (ENGLISH 3560 OR ENGLISH 1160)

- ENGLISH 1120

### PRO DEV ELECTIVE

- Students must take one of the following courses: BUS 5980, ECON 4430, ECON 5337, ENG MGT 2310, ENG MGT 3320, ENG MGT 4110, ENG MGT 5514, PHIL 3225

### COMP ENG 3150/3151

- COMP ENG 2210/2211
- COMP SCI 1570/1580

### COMP ENG 3110

- COMP ENG 2210

### COMP ENG 5410

- COMP ENG 3150
- STAT 3117 (or STAT 3115 or STAT 5643)

### COMP ENG ELECTIVES A, B

Comp Eng Senior Electives A and B, respectively, must be selected from 4xxx or 5xxx courses in Comp Eng, except Comp Eng 4000, 4099, 4096, 4097, 5000, and 5099. The two courses selected for electives A and B, respectively, must be from two different Comp Eng emphasis areas. The emphasis areas, with course number options, are as follows:

- Integrated Circuits and Logic Design: 42xx/52xx
- Computational Intelligence 53xx
- Computer Architecture and Embedded Systems: 41xx/51xx, 45xx/55xx, 46xx/56xx
- Networking, Security, and Reliability: 44xx/54xx, except Comp Eng 5410

Comp Eng 4001/5001 courses may be used in one of emphasis areas but will require a substitution form.

### COMP ENG ELECTIVE D, E

Comp Eng Senior Electives D and E must be selected from an approved list that contains most 3xxx, 4xxx and 5xxx courses in science, mathematics, and engineering except required courses in Comp Eng, Elec Eng, and Comp Sci and except COMP SCI 3610 and COMP SCI 5600. COMP ENG Electives D and E cannot include more than three hours of Comp Eng/Elec Eng 3002, Comp Eng/Elec Eng/Comp Sci 4000 or 4099.

### COMP ENG ELECTIVE C

Comp Eng Senior Elective C must be selected from 3xxx, 4xxx or 5xxx courses in Comp Eng, Elec Eng, or Comp Sci, except Comp Eng/Elec Eng/Comp Sci 3000, 4000, 4096, 4097, 4099, 5000, and 5099 and Comp Sci 4010, 3610 and 5600.

### COMP ENG SR PROJ I 4096

- COMP ENG 2210
- EITHER ECON 1100 OR ECON 1200
- COMMUNICATION ELECTIVE
- COMP ENG 3150/3151
- COMP ENG 3110
- ELEC ENG 2200

### COMP ENG SR PROJ II 4097

- COMP ENG 4096
- STAT 3117 (or STAT 3115 or STAT 5643)
- SPEECH 1185