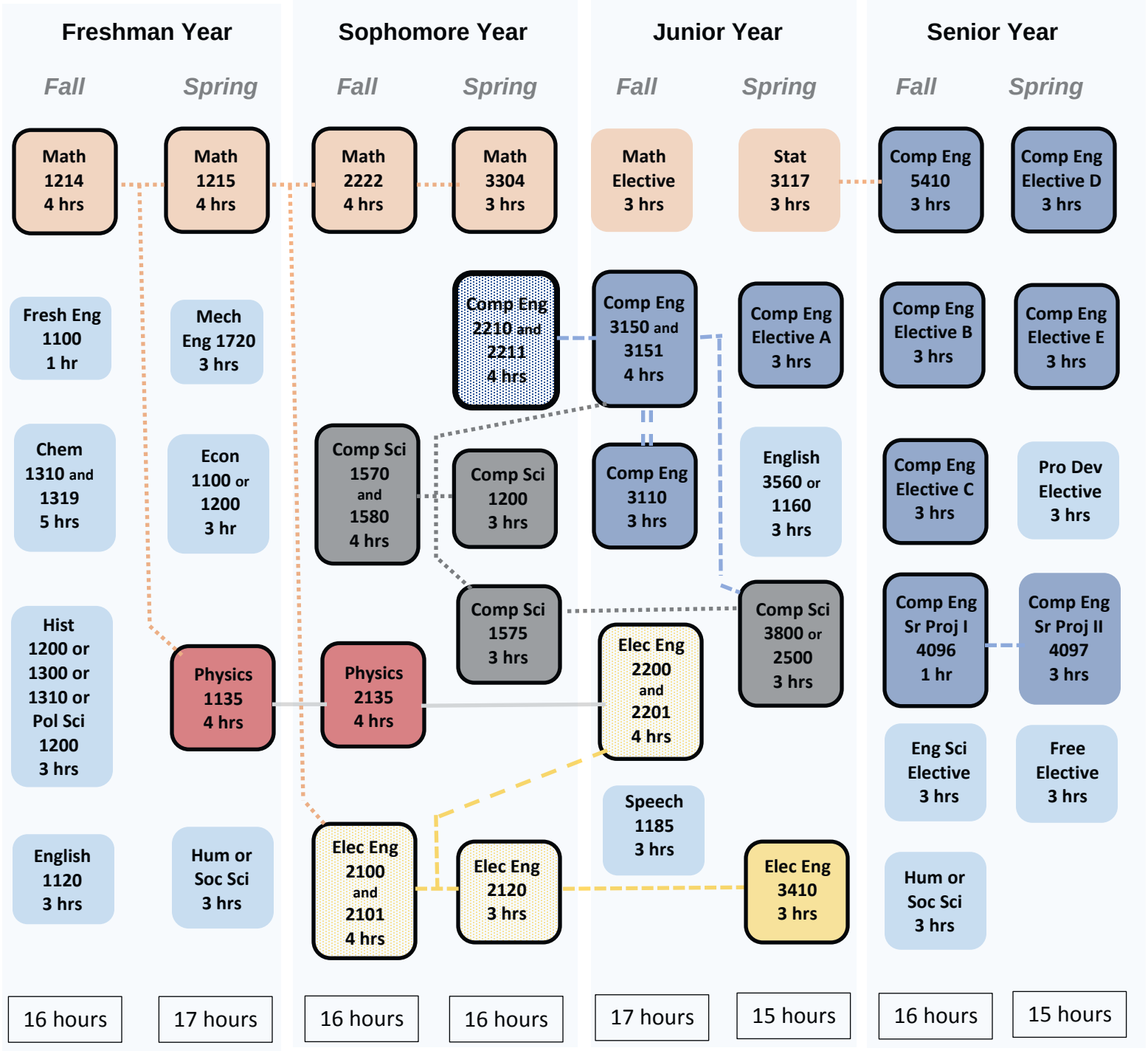
Missouri University of Science and Technology BS CpE

Effective Catalog Year 2019

Approved 2018



Core courses with C or better requirement

Core courses with advancement exam requirement

Single line denotes prerequisite course. Double line denotes co-requisite course.

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.

Prerequisite List and Course Requirements

MATH 1215
- MATH 1214

MATH 2222
- MATH 1215

MATH 3304
- MATH 2222

MATH ELECTIVE
- Students must 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
- Students may replace STAT 3117 with STAT 3115 or STAT 5643.

COMP SCI 1570/1580
- COMP SCI 1500 (EFFECTIVE SPRING 2020)

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

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
- Students must 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.

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 3150-CO-REQUISITE

COMP ENG 5410
- COMP ENG 3150
- STAT 3117 or STAT 3115 or STAT 5643.

COMP ENG ELECTIVE A
- Comp Eng Elective A must be a 4000 or 5000-level Comp Eng, Elec Eng, or Comp Sci course with at least a 3-hour lecturecomponent. This normally includes all Comp Eng and Elec Eng 4000 or 5000-level courses except Comp Eng or Elec Eng 4000, 4099, 4096, and 4097 or Comp Sci 5000, 4010, 5600, and 4099.

COMP ENG ELECTIVE B
- Comp Eng Elective B must be a 4000 or 5000 level COMP ENG course with at least a 3-hour lecture component, excluding COMP ENG 4096 and COMP ENG 4097. Students admitted to the accelerated BS/MS program must satisfy Cp Eng Electives B and C with 5xxx or 6xxx-level courses and a minimum grade of B.

COMP ENG ELECTIVE C, D, E
- Comp Eng Electives C, D, and E must be 3000, 4000 or 5000-level courses from an approved list of science, mathematics,and engineering courses. In particular, this list includes all 3000, 4000 or 5000-level Comp Eng, Elec Eng and Comp Sci courses except required courses in Comp Eng, Elec Eng, and Comp Sci and except Comp Eng 4096 and 4097, Elec Eng 2800, 1002, 1003, 4096, and 4097, and Comp Sci 2002 and 4600/5600).
- Comp Eng Electives C, D, and E must include at least six hours of engineering or computer science courses.
- COMP ENG Electives C, D, and E cannot include more than three hours of COMP ENG 4000, COMP ENG 4099, ELEC ENG 4000, or ELEC ENG 4099.

COMP ENG SR PROJ I 4096
- COMP ENG 2210
- EITHER ECON 1100 OR ECON 1200
- EITHER ENGLISH 3560 OR ENGLISH 1160
- 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
- SP&M S 1185