**Missouri University of Science and Technology Dual BS CpE-CS Degree Program**

**Effective Catalog Year 2019**

**Year 1 Year 2 Year 3 Year 4 Year 5**

***Fall Spring Fall Spring Fall Spring Fall Spring Fall***

**Comp Eng Elective B**

**3 hrs**

**Speech 1185**

**3 hrs**

**Hum or Soc Sci**

**3 hrs**

**Math**

**3108**

**3 hrs**

**Math**

**1214**

**4 hrs**

**Literature Elective**

**3 hrs**

**Math**

**3304**

**3 hrs**

**Math**

**2222**

**4 hrs**

**Math**

**1215**

**4 hrs**

Core courses with C or better requirement

**Comp Eng Sr Proj II**

**4097**

**3 hrs**

**English 3560 or 1160**

**3 hrs**

**Econ**

**1100 or 1200**

**3 hr**

**Eng Sci Elective**

**3 hrs**

**Stat 3117**

**3 hrs**

**Elec Eng 2200 and**

**2201**

**4 hrs**

**Elec Eng 2100 and**

**2101**

**4 hrs**

**Chem 1310 and 1319**

**5 hrs**

**Fresh Eng 1100**

**1 hr**

Core courses with C or better advancement exam requirement

**Comp Eng Sr Proj I**

**4096**

**1 hr**

**Hum or Soc Sci**

**3 hrs**

**Comp Sci 5XXX Elective**

**3 hrs**

**Comp Eng 5410**

**3 hrs**

**Elec Eng 3410**

**3 hrs**

**Hist**

**1200 or 1300 or 1310 or**

**Pol Sci**

**1200**

**3 hrs**

**Elec Eng 2120 and Soph Sem**

**3 hrs**

**Comp Eng 3150**

**and**

**3151**

**4 hrs**

**Comp Sci 1575**

**and**

**1585**

**4 hrs**

**Comp Sci 3600**

**3 hrs**

**Comp Sci 1570 and**

**1580**

**4 hrs**

**Comp Sci 5XXX Elective**

**3 hrs**

**Pro Dev Elective**

**3 hrs**

**Comp Eng 3110**

**3 hrs**

**Physics 1135**

**4 hrs**

**Comp Sci 1200**

**3 hrs**

**Physics 2135**

**4 hrs**

**Comp Sci 3100**

**3 hrs**

**Comp Sci 3500**

**3 hrs**

**Comp Sci 2200**

**3 hrs**

**Comp Sci 5XXX Elective**

**3 hrs**

**Comp Sci 3800**

**3 hrs**

**Mech Eng 1720**

**3 hrs**

**Comp Eng 2210**

**and**

**2211**

**4 hrs**

**Comp Sci**

**2500**

**3 hrs**

**Upper Level Hum or Soc Sci**

**3 hrs**

**Comp Sci 2300**

**3 hrs**

**Comp Sci 5XXX Elective**

**3 hrs**

**Comp Sci 5XXX Elective**

**3 hrs**

**English**

**1120**

**3 hrs**

18 hours

18 hours

16 hours

15 hours

16 hours

18 hours

18 hours

16 hours

18 hours

This summary is intended to assist students and advisors in scheduling classes. The Missouri S&T CpE Undergraduate Handbook provide a complete description of course and graduation requirements for CpE, and Dual CpE-CS BS degree programs (https://ece.mst.edu/undergraduateprograms/).

**Prerequisite List and Course Requirements**

MATH 1215

* MATH 1214

MATH 2222

* MATH 1215

MATH 3304

* MATH 2222

MATH 3108

* MATH 1215
* MATH 2222

STAT 3117 or STAT 3115 or STAT 5643

* MATH 2222

.

COMP SCI 1570/1580

* COMP SCI 1500 (EFFECTIVE SPRING 2020)

COMP SCI 1200

* COMP SCI 1570/1580

COMP SCI 1575/1585

* COMP SCI 1570/1580

COMP SCI 2200

COMP SCI 2300

COMP SCI 2500

* COMP ENG 3150
* COMP SCI 1575

COMP SCI 2500

* COMP ENG 3150
* COMP SCI 1575

COMP SCI 3100

* COMP SCI 2500

COMP SCI 3500

* COMP SCI 2200

COMP SCI 3600

* COMP SCI 2500

COMP SCI 4096

* COMP SCI 3100
* ONE OF PHIL 3225, PHIL 3235, PHIL 4340, OR PHIL 4368

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

COMP ENG ELECTIVE ACDE/COMP SCI ELECTIVE

* Comp Eng Elective A must be a 4000 or 5000-level Comp Sci course with at least a 3-hour lecture component.

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 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 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