Missouri S&T — Clark Atlanta University

General Engineering Transfer Guide

Effective Fall 2014

The following course work will apply to Missouri S&T degree requirements as outlined below.

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<th>CAU #</th>
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### Engineering Degree Requirements: Take all Courses

Math prerequisites. While they are not part of Missouri S&T engineering degree requirements, algebra and trigonometry skills are critical to success in calculus. Students should follow math placement testing and advising recommendations at their schools.

- **CMAT 111 and CMAT 112**: Calculus I and Calculus II
  - **CMAT 211**: Calculus III
  - **CMAT 212**: Differential Equations
  - **CPHY 121,121L and CPHY 122, 122L and CPHY 123, 123L**: Physics I: Mechanics and Lab and Physics II: Elec. Magnet Lab and Physics III: Optics, Mod Phys and Lab
  - **CCHE 111**: General Chemistry I
  - **CEGR 101 and CEGR 110**: Intro to Engineering and Engineering Graphics
  - **CENG 105**: College Composition I

See Degree Requirements below and Notes on back.

Second Communication Requirement*

- **CECO 252 or CECO 251**: Principles of Microeconomics or Principles of Macroeconomics
  - **CHIS 211 or CHIS 212 or CPSC 219**: History of the US Before 1865 or History of the United States Since 1865 or American Government and Politics
  - **CPSY 212**: General Psychology

Free Electives: See Other Required Courses* on back. Electives should be selected in consultation with your advisor. Free electives may not include remedial/deficiency courses, algebra, trigonometry, pre-calculus, or extra credits in required courses.

Free Electives: See Other Required Courses* on back.

Total Hours 29

### Humanities and Social Sciences Electives: Select 2 Additional Courses from the Academic Areas Below*

Students may also transfer one upper-level humanities/social sciences elective to Missouri S&T.

- **CHIS 211**: History of the United States Before 1865
  - **CHIS 212**: History of the United States Since 1865
  - **CPSC 219**: American Government and Politics
  - **CMUS 120**: Music Appreciation
  - **CPSY 211**: General Psychology

See your advisor for course options.

American History before 1877 or American History since 1877 or American Government

Other Social Science elective: history, economics, political science, sociology, psychology,

Total Hours 6-8

### Additional Degree Requirements*

The following additional courses will satisfy Missouri S&T engineering degree requirements for some, but not all, engineering degrees. Check Requirements and Notes for Missouri S&T Engineering Majors (see page 2) for specific major requirements.

- **CENG 106**: College Composition II
  - **CMAT 214**: Linear Algebra
  - **CMAT 321**: Mathematical Probability and Statistics I
  - **CCHE 112**: General Chemistry II
  - **CCHE 231**: Organic Chemistry I
  - **CCHE 221**: Organic Chemistry II
  - **CISIS 105**: Structured Programming with C
  - **CISIS 123**: Data Structures
  - **CBIO 111**: General Biology I
  - **CEGR 201**: Electrical Circuit Analysis
  - **CEGR 211**: Engineering Statics
  - **CEGR 211**: Engineering Mechanics-Statics
  - **CEGR 251**: Mechanics of Materials

Maximum credit hours to be transferred to Missouri S&T degree requirements.

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Missouri S&T residency requirements: The last 60 hours of any Missouri S&T degree must be completed at Missouri S&T.

Students must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.

Free Electives: See Other Required Courses* on back.

A grade of “C” or better is required in calculus and physics, as well as other courses depending on academic major.

*See notes for individual majors on second page.

**A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.