

# Crowder College — Missouri S&T

## Physics BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2017

### Crowder College

### Missouri S&T

#### Communication Skills (Take all courses)

ENGL 101	English Composition	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
SPCH 101	Speech	3	SPMS 1185	Principles of Speech	3
Total Hours		9	Total Hours		9

#### Mathematics and Science (Take all courses)

MATH 150, 160	Calculus I Part I and II	5	MATH 1214	Calculus for Engineers I	4
MATH 201	Calculus II	5	MATH 1215	Calculus for Engineers II	4
MATH 202	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHYS 190	General Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 210	General Physics II	5	PHYSICS 2135	Engineering Physics II	4
CHEM 111	General Chemistry	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 112	General Chemistry II	5	CHEM 1320	General Chemistry II	3
Total Hours		35	Total Hours		28

#### Social Sciences (Take all courses)

HIST 106 or HIST 107 or HIST 102	US History or US History II or Western Civilization II	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 or American History Since 1877 or Modern Western Civilization	3
PLSC 103	National, State, and Local Governments	3	POL SCI 1200	American Government	3
PSYC 101	General Psychology	3	PSYCH 1101	General Psychology	3
Total Hours		9	Total Hours		9

#### Humanities (Take all courses)

ART 101 or MUSC 101	Art Appreciation or Music History and Appreciation <i>See your advisor for course options</i>	3	ART 1180 or MUSIC 1150	Art Appreciation or Music Appreciation Literature Elective	3
Total Hours		3	Total Hours		6

#### Additional Degree Requirements (Select up to 10 credit hours)

MATH 210	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
BIOL 101	General Biology	5	BIO SCI 1113	General Biology	3
Total Hours		12	Total Hours		6

#### Additional Courses for Teacher Certification Option (Take all courses)

EDUC 203	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
EDUC 230	Education Psychology	3	PSYCH 2300 or EDUC 2102	Educational Psychology	3
Total Hours		6	Total Hours		5

**\*Teacher certification notes:** Passing scores on MoGEA and MoCA are required. Students must maintain a minimum 2.75 cumulative GPA and a minimum 3.0 content GPA. Students completing this program will have a BA degree in Chemistry with secondary education teacher certification.

**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.

Students are not required to complete all courses on this guide before transferring to Missouri S&T.