

# Crowder College — Missouri S&T

## Applied Math BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

### Crowder College

### Missouri S&T

#### Communication Skills

Take all courses.

ENGL 101	English Composition	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102 or COMM 104	Advanced English Composition or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
		Total Hours	6		
				Total Hours	6

#### Mathematics and Science

Take all courses.

MATH 150, 160	Calculus I Part I and II	5	MATH 1214	Calculus I	4
MATH 201	Calculus II	5	MATH 1215	Calculus II	4
MATH 202	Calculus III	5	MATH 2222	Calculus III	4
PHYS 190	General Physics I	5	PHYSICS 1135	Engineering Physics I	4
CHEM 111 or BIOL 101 or GEOL 115	General Chemistry I (5) or General Biology (4) or Geology (5)	4	CHEM 1310, 1319* or BIO SCI 1113, 1219* or GEOLOGY 1110	General Chemistry I (4) and Lab* (1) or General Biology* (3) and Lab* (1) or Physical and Environmental Geology (3) Satisfies the 3-hour science requirement. Credit hours apply to degree totals as indicated for each course. *BIO SCI 1213 will be substituted for 1113. CHEM 1319 and BIO SCI 1219 are not degree requirements, will transfer as general elective credit.	3
Total Hours		24	Total Hours		19

#### Social Sciences

Take all courses.

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

#### Humanities

Select one course.

ART 101	Art Appreciation	3	ART 1180	Art Appreciation	3		
MUSC 101	Music Appreciation	3	MUSIC 1150	Music Appreciation	3		
TA 205	Intro to Theatre	3	THEATRE 1190	Theatre via Video	3		
ENGL 240 or ENGL 230 or ENGI 222	British Literature I or Survey of American Literature I or World Literature I or other non-prerequisite literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or other non-prerequisite literature	3		
		Total Hours	3			Total Hours	3

#### Additional Degree Requirements

Select additional courses to total up to the maximum transfer credit hours shown below.

MATH 210	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
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#### Teacher Certification Requirements

Take all courses.

EDUC 125	Intro to Education	3	EDUC 1074	Education in a Diverse Society	3		
EDUC 251	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1		
EDUC 231	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3		
PSYC 211	Lifespan Development	3	PSYCH 3310	Developmental Psychology	3		
EDUC 240	Education of Exceptional Learners	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3		
		Total Hours	15			Total Hours	13

**Professional Requirements for Teacher Education Program: Please view all program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.**

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

**60**

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.