

# Crowder College — Missouri S&T

## Applied Mathematics BS

Transfer Guide Effective as of Fall 2025

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

### Crowder College

### Missouri S&T

#### English and Communication Skills

Take all courses.

ENGL 101	English Composition	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102 or	Advanced English Composition or		ENGLISH 1160 or	Writing and Research or	
ENGL 203 or	Technical Report Writing or	3	ENGLISH 3560 or	Technical Writing or	3
COMM 104	Fundamentals of Speech		SPMS 1185	Principles of Speech	

Total Hours 6

Total Hours 6

#### Mathematics, Statistics, and Computer 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
MATH 210	Differential Equations	3	MATH 3304	Elementary Differential Equations	3

Total Hours 18

Total Hours 15

#### Natural Sciences

Select PHYSICS 1135 and 1 additional course from the options below. A total of 7 hours will apply to this requirement.

PHYS 190	General Physics I required	5	PHYSICS 1135	Engineering Physics I required	4
PHYS 210	General Physics II	5	PHYSICS 2135	Engineering Physics II	4
CHEM 104 or	Chemistry for Health Sciences (4) or		CHEM 1301	Introductory Chemistry	
CHEM 106	Survey of Chemistry Essentials (3)	3	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 111	General Chemistry I	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 112	General Chemistry II	5	BIO SCI 1113, 1219	General Biology and Lab	4
BIOL 101	General Biology I	4	GEOLOGY 1110	Physical and Environmental Geology or higher geology	3
GEOL 115	Intro to Geology	4			

Total Hours 7

Total Hours 7

#### Humanities, Arts, and Social Sciences General Education Requirements

From the options listed in each group below, select 15 hours to include  
6 hours Humanities and Fine Arts from at least two specific disciplines and  
6 hours Behavioral and Social Sciences from at least two specific disciplines.

\*At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.

#### Humanities and Fine Arts

Select 6 hours from at least two specific disciplines.

ENGL 240 or	British Literature I or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or
ENGL 245 or	British Literature II or		ENGLISH 1212 or	British Literature II: 1800 to Present
ENGL 230 or	Survey of American Literature I or		ENGLISH 1221 or	American Literature: 1600 to 1865 or
ENGL 235 or	Survey of American Literature II or		ENGLISH 1222 or	American Literature: 1865 to Present or
ENGL 222 or	World Literature I or		ENGLISH 1231 or	World Literature I: Beginnings to the Renaissance or
HIST 106* or	U.S. History I* or	6	HISTORY 1300* or	American History to 1877 or
HIST 107* or	U.S. History II* or		HISTORY 1310* or	American History Since 1877 or
ART 101 or	Art Appreciation or		ART 1180 or	Art Appreciation or
MUSC 101 or	Music Appreciation or		MUSIC 1150 or	Music Understanding and Appreciation or
TA 205	Intro to Theatre		THEATRE 1190	Theatre via Video

\*Satisfies the State of Missouri government requirement.

\*Satisfies the State of Missouri government requirement.

Select

Behavioral and Social Sciences					
6 hours to include ECON 1100 or 1200 and from at least two specific disciplines.					
ECON 202 or	Principles of Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3
ECON 201	Principles of Macroeconomics		ECON 1200	Principles of Macroeconomics	
HIST 101 or	Western Civilization I or		HISTORY 1100 or	Early Western Civilization or	
HIST 102* or	Western Civilization II* or		HISTORY 1200* or	Modern Western Civilization or	
GEOG 111 or	World Regional Geography or		HISTORY 2110 or	World Regional Geography or	
PHL 101 or	Intro to Western Philosophy or		PHILOS 1105 or	Self and World: Intro to Philosophy or	
PHL 201 or	Logic or	3	PHILOS 1115 or	Logic and Reasoning: An Introduction or	
PLSC 103* or	National, State, Local Government* or		POL SCI 1200* or	American Government or	
PSYC 101 or	General Psychology or		PSYCH 1101 or	General Psychology or	
Foreign Language	Elementary or Intermediate Foreign Language		Foreign Language	Elementary or Intermediate Foreign Language	

\*Satisfies the State of Missouri government requirement.

\*Satisfies the State of Missouri government requirement.

Select

Humanities, Arts, and Social Sciences					
Select 3 hours.					
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3

Additional Degree Requirements					
Select additional courses to total up to the maximum transfer credit hours shown below.					
Technical Electives	Technical electives in biology, business, chemistry, computer science, economics, education, engineering, finance, geology, geophysics, information science and technology, marketing, mechanics, physics, or technical communication approved by advisor.		Technical Electives	Technical electives in biology, business, chemistry, computer science, economics, education, engineering, finance, geology, geophysics, information science and technology, marketing, mechanics, physics, or technical communication approved by advisor.	
Electives	Free Electives		Electives	Free Electives	

#### 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.