

# Missouri S&T — Ozarks Technical Community College

## OTC Chemistry AS to Missouri S&T Chemistry BS Transfer Guide

The following OTC course work will apply to Missouri S&T Chemistry Bachelor of Science degree requirements as outlined below. Students are not required to complete all course work before transferring to Missouri S&T.

Ozarks Technical Community College							Missouri S&T		
	OTC #	Title	Hours		S&T #	Title	Hours		Hours
<b>Communication Skills</b>	<b>Communication Skills (Take all courses)</b>								
	ENG 101	Composition I	3		ENG 020	Exposition and Argumentation			3
	ENG 102	Composition II	3		ENG 060	Writing and Research			3
	COM 105	Public Speaking (Required for AA degree)	3		SPMS 085	Principles of Speech (Applies to BS as Humanities Elective)			3
	Total Hours			9	Total Hours			9	
<b>Mathematics and Science</b>	<b>Mathematics and Science (Take all courses)</b>								
	MTH 140	Analytic Geometry/Calculus I	5		MATH 008	Calculus with Analytic Geometry I			5
	MTH 141	Analytic Geometry/Calculus II	5		MATH 021	Calculus with Analytic Geometry II			5
	MTH 240	Analytic Geometry/Calculus III	3		MATH 022	Calculus with Analytic Geometry III			4
	PHY 220	Physics for Engineers and Scientists I	5		PHY 021, 022	General Physics I and Lab			5
	PHY 222	Physics for Engineers and Scientists II	5		PHY 025, 026	General Physics II and Lab			5
Total Hours			23	Total Hours			24		
<b>Social Sciences</b>	<b>Social Sciences (Select 9 credit hours to include one course to satisfy state requirement)</b>								
	HUM 121 or HST 120 or HST 130 or PLS 101	Western Civilization II or Discovery to Reconstruction or Reconstruction Through World War II or American Government and Politics (At least one of these courses is required to satisfy state requirements)	3		HIS 112 or HIS 175 or HIS 176 or PS 090	Modern Western Civilization or American History to 1877 or American History Since 1877 or American Government (At least one of these courses is required to satisfy state requirements)			3
	ECO 270 or ECO 275	Principles of Economics I or Principles of Economics II	3		ECON 122 or ECON 121	Principles of Macroeconomics or Principles of Microeconomics			3
	PSY 110	Introduction to Psychology	3		PSYCH 050	General Psychology			3
	<i>See your advisor for course options</i>				<i>Other economics, history, political science, sociology, psychology elective</i>				
Total Hours			9	Total Hours			9		
<b>Humanities</b>	<b>Humanities (Select 6 credit hours to include at least one literature course)</b>								
	ART 110	Art and Experience	3		ART 080	Art Appreciation			3
	MUS 101	Music of the World	3		MUS 050	Music Understanding and Appreciation			3
	THR 101	Introduction to Theater	3		THE 090	Theatre Appreciation			3
	ENG 240	British Literature: The Beginnings to 1790	3		ENG 075	British Literature I: The Beginnings to 1800			3
	ENG 220	American Literature: The Beginnings to 1870	3		ENG 105	American Literature: 1600 to 1865			3
	PHL 101	Introduction To Philosophy	3		PHIL 005	Intro to Philosophy			3
<i>See your advisor for course options</i>				<i>Other fine art, literature, or philosophy elective</i>					
Total Hours			6	Total Hours			6		
<b>Additional Degree Requirements</b>	<b>Additional Degree Requirements (Select up to 13 hours)</b>								
	CHM 111	General Chemistry I	5		CHEM 001,002	General Chemistry and Lab (1st semester)			5
	CHM 112	General Chemistry II	5		CHEM 003,008	General Chemistry II and Qualitative Analysis			5
	BIO 160	General Biology I (Required for AA degree.)	4		BIO 110, 112	General Biology and Lab (Transfers to S&T as general elective credit.)			3
	CIS 101	Personal Computer Applications (Required for AS degree.)	3		GNCR	General Credit (Transfers to S&T as general elective credit.)			3
	CHEM 250	Intro to Quantitative Analysis (Required for AS degree.)	4		GNCR	General Credit (Transfers to S&T as general elective credit.)			3
Total Hours			14	Total Hours			13		
<b>Total Credit Hours</b>									<b>61</b>

**Missouri S&T residency requirements: The last 60 credits of the 131 credits required for the Chemistry BS degree must be completed at Missouri S&T. Consult your transfer school advisor to take more transfer credits than recommended on this guide. Students are not required to complete all course work before transferring to Missouri S&T.**