Moberly Area Community College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2023

MATH 140 Precalculus Algebra 3 MATH 1140¹ College Algebra¹ College Algebra² College Algebra		
LAL 102 Composition II Public Speaking Public Speaking Total Hours 9 Service (Take all courses) Mathematics and Science (Take all courses) MATH 140 Precalculus Algebra 3 MATH 1140 College Algebra 7 Required to receive are affected on a Mathematics and Science (Take all courses) MATH 141 Precalculus Trigonometry 3 MATH 1140 College Algebra 7 Required to receive are affected on a Mathematics & Service (Take all courses) MATH 142 Precalculus Trigonometry 3 MATH 1160 Tifignometry 7 Required for teacher certification of a Mathematics & Service MATH 121 Collegulus I College Algebra 7 Required for teacher certification of a Mathematics & Service MATH 122 Calculus I College Algebra 7 Required for teacher certification of a Mathematics & Service MATH 121 Calculus I MATH 202 Analytic Geometry and Calculus II 5 MATH 1215 Calculus II Calculus I MATH 203 Analytic Geometry and Calculus II 5 MATH 1215 Calculus II Calculus I MATH 203 Analytic Geometry and Calculus II 5 MATH 1215 Calculus II Calculus		
Public Speaking		3
MATH 140 Precalculus Algebra 3 MATH 1140* College Algebra* MATH 145 Precalculus Trigonometry 3 MATH 1160* Trigonometry* MATH 146 Precalculus Trigonometry 3 MATH 1160* Trigonometry* MATH 147 Calculus 1 MATH 148 Precalculus Trigonometry 3 MATH 1160* Trigonometry* MATH 201 Analytic Geometry and Calculus 1 5 MATH 1214 Calculus 1 MTH 202 Analytic Geometry and Calculus 11 5 MATH 1215 Calculus 1 MTH 203 Analytic Geometry and Calculus 11 5 MATH 1215 Calculus 11 MTH 201 Engineering Physics 1 5 MATH 1215 Calculus 11 MTH 202 Engineering Physics 1 5 PHYSICS 2135 Engineering Physics 1 Total Hours 31 Fright 190 F		3
MATH 140 Precalculus Algebra 3 MATH 1140' College Algebra' Requested to reacher creditation; not a Mathematics B8 requested from the process of the pro		3
MATH 140 Precalculus Algebra 3 MATH 1140" College Algebra" **Requised for teacher certification; not a Mathematics BS required for teacher certification and for the mathematics BS required for teacher certification in the mathematics and formatics and format	l Hours	9
MATH 1140 Precalculus Argeora MATH 1141 Precalculus Trigonometry 3 MATH 1160* Trigonometry Reagued for teacher certification: rot a Mathematics BS requirements Reagued for teacher certification: rot a Mathematics BS requirements Reagued for teacher certification: rot a Mathematics BS requirements RATH 201 Analytic Geometry and Calculus II 5 MATH 1214 Calculus II MTH 202 Analytic Geometry and Calculus II 5 MATH 1215 Calculus II PHY 201 Engineering Physics I 5 PHYSICS 1135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Total Hours 31 From PHYSICS 2135 Engineering Physics II Total Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 31 From PHYSICS 2135 Engineering Physics II Fotal Hours 21 From PHYSICS 2135 Engineering Physics II Fotal Hours 21 From PHYSICS 2135 Engineering Physics II Fotal Hours 21 From PHYSICS 2135 Engineering Physics II Fotal Hours 21 From PHYSICS 2135 Engineering Physics II Fotal Hours 21 From PHYSICS 2135 Engineering Physics II Fotal Hours 21 From PHYSICS 2135 Engineering Physics II Fotal Hours 21 From PHYSICS 2135 Engineering Physics II Fotal Hours 21 From PHYSICS 2135 Engineering Physics II Fotal Hours 21 From PHYSICS 2135		
MTH 201 Analytic Geometry and Calculus II 5 MATH 1214 Calculus II MTH 202 Analytic Geometry and Calculus II 5 MATH 1215 Calculus II MTH 203 Analytic Geometry and Calculus III 5 MATH 1215 Calculus II MTH 203 Analytic Geometry and Calculus III 5 MATH 1215 Calculus II PHY 201 Engineering Physics I 5 PHYSICS 2135 Engineering Physics I For an Analytic Geometry and Calculus III 5 PHYSICS 2135 Engineering Physics II Total Hours 31 Total Hours 31 Total For an Analytic Geometry and Calculus III 5 PHYSICS 2135 Engineering Physics II For an Analytic Geometry and Calculus III 5 PHYSICS 2135 Engineering Physics II For an Analytic Geometry and Calculus III 5 PHYSICS 2135 Engineering Physics II For an Analytic Geometry and Calculus III 5 PHYSICS 2135 Engineering Physics II For an Analytic Geometry and Calculus III 5 PHYSICS 2135 Engineering Physics II For an Analytic Geometry and Calculus III 5 PHYSICS 2135 Engineering Physics II For an Anthony III 5 PHYSICS 2135 Engineering Physics II For an American History to 1865 or HISTORY 1300 or American History to 1877 or American History to 1865 or HISTORY 1300 or American History from 1865 HISTORY 1300 or American History Start 177 or American History from 1865 HISTORY 1300 or American History Start 177 or American History from 1865 HISTORY 1300 or Principles of Microeconomics or ECON 100 or Principles of Microeconomics or ECON 1200 or American History Start 1870 or Art Survey and Appreciation or THEATRE 1190 or PHILOS 1105 or Microeconomics or English Literature Survey to 1750 or English Literature Survey	uirement.	3
MTH 202	uirement.	2
MTH 203		4
PHY 201 Engineering Physics I 5 PHYSICS 1135 Engineering Physics I Total Hours 31 Total Hours 32 Total Hours 33 Total Hours 34 The Art Survey and Appreciation I or 34 The Survey and Appreciation I or 34 The Survey and Appreciation I or 34 The Survey and Appreciation I or 35 The Survey and Appreciation or 35 The Survey and Appreciation Or 37 The Survey and Appreciation Or 38 The Survey Survey 1870 Or 38 The Survey Survey 1870 Or 39 The Survey Survey Survey 1870 Or 39 The Survey		4
PHY 202 Engineering Physics II Total Hours 31 Total Hours 51 PHYSICS 2135 Engineering Physics II Total Hours 7 Total Hours 8 Total Hours 9 Tot		4
PHY 202 Engineering Physics II Total Hours 31 Total Hours 51 Total Hours 50 Total Sciences (Take all courses) HST 102 or American History to 1865 or 3 HiSTORY 1200 or American History to 1877 or American History from 1865 HISTORY 1310 American History to 1877 or American History from 1865 HISTORY 1310 American History from 1865 HISTORY 1310 American History from 1877 or History from 1878 or ECON 100 or Principles of Microeconomics or ECON 101 Microeconomics or ECON 101 Microeconomics or ECON 101 Microeconomics or ECON 1200 Principles of Microeconomics or ECON		4
Social Sciences (Take all courses) HST 102 or		4
HST 102 or American History to 1865 or American History to 1865 or American History to 1865 or HISTORY 1300 or American History to 1867 or American History to 1865 or HISTORY 1310 American History to 1877 or American History to 1877 or HISTORY 1310 American History to 1877 or HISTORY 1310 American Government PSY 101 General Psychology 3 PSYCH 1101 General Psychology ECN 102 or Microeconomics or ECN 102 or Macroeconomics or ECN 102 or Macroeconomics or ECN 101 or American History to 1870 or ECN 120 Principles of Microeconomics or ECN 120 Principles of Microecon	l Hours	25
HST 102 or American History to 1865 or American History to 1865 or American History to 1865 or HISTORY 1300 or American History to 1867 or American History to 1865 or HISTORY 1310 American History to 1877 or American History to 1877 or HISTORY 1310 American History to 1877 or HISTORY 1310 American Government PSY 101 General Psychology 3 PSYCH 1101 General Psychology ECN 102 or Microeconomics or ECN 102 or Macroeconomics or ECN 102 or Macroeconomics or ECN 101 or American History to 1870 or ECN 120 Principles of Microeconomics or ECN 120 Principles of Microecon		
PSY 101 General Psychology ECN 102 or Microeconomics or ECN 101 Macroeconomics or ECN 101 Macroeconomics Total Hours 12 Total Humanities (Take all courses) ART 101 or Art Survey and Appreciation I or AUS 101 or Fundamentals of Music or Music Appreciation or Mu		3
ECN 102 or Macroeconomics or ECN 101 Macroeconomics or ECN 101 Macroeconomics or ECN 101 Macroeconomics or ECN 101 Macroeconomics or ECN 1200 Principles of Music Appreciation or Thetare via Video or Thetare v		3
Humanities (Take all courses) ART 101 or Art Survey and Appreciation I or ART 102 or Art Survey and Appreciation I or MUS 101 or Fundamentals of Music or Music Appreciation or Music Appreciation or Music Appreciation or Theatre Appreciation or Music Appreciation or Music Appreciation or Music Appreciation or Theatre Appreciation or Theatre Appreciation or PHILOS 1105 Intro to Philosophy LAL 150 or English Literature Survey to 1750 or LAL 120 or American Literature Survey to 1870 or LAL 120 or A Survey of World Literature I or LAL 125 or Women's Literature or LAL 125 or Women's Literature or LAL 125 or African-American Literature (or other literature elective) Total Hours 6 Find High and Find Hours Select additional courses to total up to the maximum transfer credit hours shown below. MTH 250 Differential Equations 3 MATH 3304 Elementary Differential Equations PHY 121 or General Chemistry I or Biology Additional Courses for Teacher Certification Option (Take all courses) EDU 220 Foundations of Education in a Diverse Society 3 EDUC 1040 Perspectives in Education EDU 245 Educational Psychology EDU 242 Educational of Exceptional Learners 3 PSYCH 4310 Psychology of the Exceptional Child		3
Humanities (Take all courses) ART 101 or Art Survey and Appreciation I or ART 102 or Art Survey and Appreciation I or ART 102 or Art Survey and Appreciation I or Fundamentals of Music or Fundamentals of Music or Music Appreciation or Theatrack Video or Intro to Philosophy Intention Philipsophy Intention Philosophy Intention Ph	l Hours	12
ART 101 or Art Survey and Appreciation I or ART 102 or Art Survey and Appreciation II or ART 102 or Art Survey and Appreciation II or MuSic 102 or MuSic Appreciation or Fundamentals of Music or MuSic Appreciation or Theatre Appreciation or PHILOS 1105 Intro to Philosophy LAL 150 or English Literature Survey to 1750 or LAL 120 or LAL 210 or LAL 210 or LAL 255 or Women's Literature or LAL 255 o	11100.0	
ART 102 or MUS 101 or MUS 101 or Fundamentals of Music or Fundamentals of Music or Music Appreciation or Theatre via Video or PHI 150 Intro to Philosophy Intr		
LAL 150 or LAL 120 or American Literature Survey to 1870 or LAL 120 or American Literature Survey to 1870 or LAL 210 or As Survey of World Literature I or LAL 255 or Women's Literature or LAL 125 African-American Literature LAL 125 Or African-American Literature Total Hours 6 Total Additional Degree Requirements Select additional courses to total up to the maximum transfer credit hours shown below. MTH 250 Differential Equations 3 MATH 3304 Elementary Differential Equations BIO 101 Biology 5 Foundations of Education in a Diverse Society 3 EDUC 1040 Perspectives in Education EDU 245 Educational Psychology PSY 205 Human Lifespan Development 3 PSYCH 3310 Developmental Psychology EDU 242 Educational of Exceptional Learners 3 PSYCH 3310 Psychology of the Exceptional Child		3
Additional Degree Requirements Select additional courses to total up to the maximum transfer credit hours shown below. MTH 250 Differential Equations 3 MATH 3304 Elementary Differential Equations PHY 121 or Biology 5 General Chemistry I or Biology 5 General Chemistry I and Lab or General Biology and Lab Additional Courses for Teacher Certification Option (Take all courses) EDU 220 Foundations of Education in a Diverse Society 3 EDUC 1040 Perspectives in Education EDU 245 Educational Psychology 3 PSYCH 2300 (EDUC 2102) PSY 205 Human Lifespan Development 3 PSYCH 3310 Developmental Psychology EDU 242 Educational Child	Γ	3
Select additional courses to total up to the maximum transfer credit hours shown below. MTH 250 Differential Equations 3 MATH 3304 Elementary Differential Equations PHY 121 or General Chemistry I or Biology 5 CHEM 1310, 1319 or General Chemistry I and Lab or BIO SCI 1113, 1219 General Biology and Lab Additional Courses for Teacher Certification Option (Take all courses) EDU 220 Foundations of Education in a Diverse Society 3 EDUC 1040 Perspectives in Education EDU 245 Educational Psychology 3 PSYCH 2300 (EDUC 2102) PSY 205 Human Lifespan Development 3 PSYCH 3310 Developmental Psychology EDU 242 Educational of Exceptional Learners 3 PSYCH 4310 Psychology of the Exceptional Child	l Hours	6
PHY 121 or BIO 101 General Chemistry I or BIO 101 Biology 5 CHEM 1310, 1319 or BIO SCI 1113, 1219 General Chemistry I and Lab or General Biology and Lab Additional Courses for Teacher Certification Option (Take all courses) EDU 220 Foundations of Education in a Diverse Society 3 EDUC 1040 Perspectives in Education EDU 245 Educational Psychology 3 PSYCH 2300 (EDUC 2102) Educational Psychology PSY 205 Human Lifespan Development 3 PSYCH 3310 Developmental Psychology EDU 242 Educational of Exceptional Learners 3 PSYCH 4310 Psychology of the Exceptional Child		
PHY 121 or Biology General Chemistry I or Biology Additional Courses for Teacher Certification Option (Take all courses) EDU 220 Foundations of Education in a Diverse Society 3 EDUC 1040 Perspectives in Education EDU 245 Educational Psychology 3 PSY 205 Human Lifespan Development 3 PSYCH 2300 Educational Psychology EDU 242 Educational Learners 3 PSYCH 4310 Psychology of the Exceptional Child		3
EDU 220 Foundations of Education in a Diverse Society 3 EDUC 1040 Perspectives in Education EDU 245 Educational Psychology 3 PSYCH 2300 (EDUC 2102) PSY 205 Human Lifespan Development 3 PSYCH 3310 Developmental Psychology EDU 242 Educational of Exceptional Learners 3 PSYCH 4310 Psychology of the Exceptional Child		5
EDU 245 Educational Psychology 3 PSYCH 2300 (EDUC 2102) Educational Psychology PSY 205 Human Lifespan Development 3 PSYCH 3310 Developmental Psychology EDU 242 Educational of Exceptional Learners 3 PSYCH 4310 Psychology of the Exceptional Child		
PSY 205 Human Lifespan Development 3 PSYCH 3310 Developmental Psychology EDU 242 Educational Psychology PSY 205 Human Lifespan Development 3 PSYCH 3310 Developmental Psychology EDU 242 Educational of Exceptional Learners 3 PSYCH 4310 Psychology of the Exceptional Child		2
EDU 242 Educational of Exceptional Learners 3 PSYCH 4310 Psychology of the Exceptional Child		3
, 0, 1		3
T-4al Harris 40		3
Total Hours 12 Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/.	al Hours	11
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 must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree must be completed at Missouri S&T.	jree.	

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2023. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.