East Central College — Missouri S&T

Computer Science BS
Transfer Guide Effective as of Fall 2025

	East Central College			Missouri S&T	
	C		ication Skills		
ENG 101	English Composition I	Take 3	all courses. ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or	English Composition II or	3	ENGLISH 1160 or	Writing and Research or	3
ENG 104	Technical Writing Total Hours	6	ENGLISH 3560	Technical Writing Total Hours	6
	Computer Sc		lathematics, and Scie	ence	
		Take	all courses.	Computational Problem Solving* (preferred) or	
50D 054	Data Structures (3) or		00110 001 15001	Intro to Programming Methodology and Lab*	
EGR 251 or EGR 221,222	C++ Program Engineers and Lab (4) *EGR 251 is preferred; EGR 221, 222 will be accepted in lieu of EGR 251 if	3	COMP SCI 1500* or COMP SCI 1971.1981*	*COMP SCI 1500 is preferred; COMP SCI 1971,1981 will be accepted in lieu of COMP SCI 1500 if necessary. A maximum of 3 hours applies to the computer	3
	necessary.			science requirement. Any additional credit hours apply to degree totals as general elective credit.	
MTH 190	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4
MTH 210 MTH 241	Analytic Geometry & Calculus II Linear Algebra	5	MATH 1215 MATH 3108	Calculus II Linear Algebra	3
MTH 242	Engineering Statistics	3	STAT 3115	Engineering Statistics	3
	Total Hours		Onlanda Flactica	Total Hours	17
Salact u	■ Engir p to 6 hours in engineering/science electives not already use	_	Science Electives	ent See Approved Science and Engineering Electives at	
ocicet u			/undergraduate-degree/	cit. See Approved Science and Engineering Electives at	
	Analytical Geometry & Calculus III (5) or			Calculus III (4) or Elementary Differential Equations (3)	
MTH 220 or	Differential Equations (3)	3	MATH 2222 or MATH 3304	Or other math 2000-level or higher or	3
MTH 245	Or other math 2000-level or higher or Any statistics 4000-level or higher		WATH 3304	Any statistics 4000-level or higher Satisfies the 3-hour science lecture/lab requirement. Credit hours apply to degree	
EGR 203 or	Engineering Mechanics-Statics or		CIV ENG 2200 or	totals as indicated for each course. Statics or	
EGR 214 or	Engineering Mechanics-Dynamics or Intro to Circuit Theory	3	MECH ENG 2350 or	Engineering Mechanics-Dynamics (2) or	3
EGR 231	Or other course with the equivalent of a Missouri S&T engineering designation.	J	ELEC ENG 2800	Electrical Circuits Or other course with the equivalent of a Missouri S&T engineering designation.	Ü
PHY 111, 112 or				College Physics I or	
PHY 211, 212	College Physics I and Lab or General Physics I and Lab	5	PHYSICS 1145 or PHYSICS 1135	Engineering Physics I Only one of these courses may be applied to the engineering/science elective	4
				requirement.	
PHY 121, 122 or	College Physics II and Lab or	5	PHYSICS 2145 or	College Physics II or Engineering Physics II	4
PHY 221, 222	General Physics II and Lab		PHYSICS 2135	Only one of these courses may be applied to the engineering/science elective requirement.	
Physics	Any physics excluding the equivalent of S&T PHYS 2111,	3	Physics	Any physics excluding the equivalent of S&T PHYS 2111,	3
rilysics	2119, 2135, and 2145, except as noted above.	3	Filysics	2119, 2135, and 2145, except as noted above.	3
Science	Any biology, chemistry, geology, or environmental science.	3	Science	Any biology, chemistry, geology, or environmental science.	3
			ve requirements. Any additional credit hor	urs apply to degree totals as general elective credit.	
	Total Hours		ral Education Require	Total Hours	6
	Select 7 hours to include at least t				
CHM 111 or	General Chemistry I and Lab (5) or		CHEM 1310, 1319 or	General Chemistry I (4) and Lab (1) or	
BIO 111 or	General Biology and Lab (5) or Principles of Biology II and Lab (5)	4	BIO SCI 1113, 1219 or	General Biology (3) and Lab (1) or Biodiversity (3) and Lab (1)	4
BIO 122	Lecture/lab pair must total a minimum of 4 hours.		BIO SCI 1223, 1229	Lecture/lab pair must total a minimum of 4 hours.	
Natural Science	Any Biology (1113 or higher), Chemistry (1301 or higher), Geology (1110 or higher) or Physics (1111 or higher)	3	Natural Science	Any Biology (1113 or higher), Chemistry (1301 or higher), Geology (1110 or higher) or Physics (1111 or higher)	3
	Total Hours	7		Total Hours	7
	Total Hours Humanities, Arts, and Soci		nces General Education	Total Hours	7
	Humanities, Arts, and Soci	al Scie		Total Hours on Requirements	7
	Humanities, Arts, and Soci From the options listed 6 hours Humanities and f	al Sciei in each ine Arts i	group below, select 12 hor rom at least two specific dis	Total Hours on Requirements urs to include	7
	Humanities, Arts, and Soci From the options listed 6 hours Humanities and I 3 hours	al Sciei in each ine Arts t Behavior	group below, select 12 ho rom at least two specific dis al and Social Sciences.	Total Hours on Requirements urs to include sciplines and	7
	Humanities, Arts, and Soci From the options listed 6 hours Humanities and f 3 hours *At least one course must be selected from HISTORY 1200,	in each ine Arts f Behavior 1300, 1310	group below, select 12 hor rom at least two specific dis al and Social Sciences. b, or POL SCI 1200 to satisfy	Total Hours on Requirements urs to include sciplines and	7
	Humanities, Arts, and Soci From the options listed 6 hours Humanities and I 3 hours *At least one course must be selected from HISTORY 120. H Select 6 hour	in each ine Arts t Behavior 1300, 1310 umanitie	group below, select 12 hor rom at least two specific dis al and Social Sciences. b, or POL SCI 1200 to satisfy s and Fine Arts east two specific discipline	Total Hours on Requirements urs to include sciplines and y the State of Missouri government requirement.	7
ENG 210 or	Humanities, Arts, and Soci From the options listed 6 hours Humanities and f 3 hours *At least one course must be selected from HISTORY 1200, H Select 6 hour Survey British Lit: Beginnings - 1784 or	in each ine Arts t Behavior 1300, 1310 umanitie	group below, select 12 hor rom at least two specific di- al and Social Sciences. , or POL SCI 1200 to satisfy s and Fine Arts east two specific discipline: ENGLISH 1211 or	Total Hours on Requirements urs to include sciplines and y the State of Missouri government requirement. s. British Literature I: The Beginnings to 1800 or	7
ENG 210 or ENG 211 or ENG 221 or	Humanities, Arts, and Soci From the options listed 6 hours Humanities and F 3 hours *At least one course must be selected from HISTORY 1200, H Select 6 hour Survey British Lit: Beginnings - 1784 or Survey British Lit: Romantic-Present or Survey American Lit: Beginnings - 1865 or	in each ine Arts t Behavior 1300, 1310 umanitie	group below, select 12 hor rom at least two specific dis al and Social Sciences. o, or POL SCI 1200 to satisfy s and Fine Arts east two specific disciplines ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1221 or	Total Hours on Requirements urs to include sciplines and y the State of Missouri government requirement. s. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or	7
ENG 210 or ENG 211 or ENG 221 or ENG 222 or	Humanities, Arts, and Soci From the options listed 6 hours Humanities and f 3 hours 'At least one course must be selected from HISTORY 1200, H Select 6 hour Survey British Lit: Beginnings - 1784 or Survey British Lit: Romantic-Present or	in each ine Arts t Behavior 1300, 1310 umanitie	group below, select 12 hor rom at least two specific dia al and Social Sciences. b, or POL SCI 1200 to satisfy s and Fine Arts east two specific disciplines ENGLISH 1211 or ENGLISH 1212 or	Total Hours on Requirements urs to include sciplines and y the State of Missouri government requirement. s. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present	7
ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124 or HST 101* or	Humanities, Arts, and Soci From the options listed 6 hours Humanities and F 3 hours *At least one course must be selected from HISTORY 1200, Hard Select 6 hour Survey British Lit: Beginnings - 1784 or Survey British Lit: Romantic-Present or Survey American Lit: Beginnings - 1865 or Survey American Lit: 1865-Present or World Literature I or US History to 1877* or	in each ine Arts t Behavior 1300, 1310 umanitie	group below, select 12 hor rom at least two specific dis al and Social Sciences. b, or POL SCI 1200 to satisfy s and Fine Arts east two specific disciplines ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300° or	Total Hours on Requirements urs to include sciplines and y the State of Missouri government requirement. s. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1865 to Present or World Literature: 1865 to Present or World Literature: 1 Beginnings to the Renaissance or American History to 1877 or	7
ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124 or HST 101* or	Humanities, Arts, and Sociation of the Control of t	in each Fine Arts t Behavior 1300, 1310 umanitie s from at	group below, select 12 hor rom at least two specific dial and Social Sciences. , or POL SCI 1200 to satisfy s and Fine Arts east two specific discipline ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 12231 or	Total Hours on Requirements urs to include sciplines and y the State of Missouri government requirement. s. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 to 1865 or American Literature: 1865 to Present or World Literature: 1855 to Present or World Literature: 1865 to the Renaissance or	
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ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124 or HST 101° or HST 101° or ART 101 or MUS 101 or	Humanities, Arts, and Sociarion the options listed 6 hours Humanities and 6 hours a hours and 6 hours a hours are a hours and 6 ho	al Scier in each ine Arts (Behavior 1300, 131(umanities from at	group below, select 12 hor rom at least two specific dis al and Social Sciences. In or POL SCI 1200 to satisfy seast two specific disciplines end to select the specific disciplines. ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1221 or ENGLISH 1220 or ENGLISH 1231 or HISTORY 1310° or ART 1180 or MUSIC 1150 or THEATRE 1150 and Social Sciences	Total Hours on Requirements urs to include sciplines and y the State of Missouri government requirement. S. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877 or American History Since 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change	
ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124 or HST 101* or HST 102* or ART 101 or MUS 101 or THE 101	Humanities, Arts, and Soci From the options listed 6 hours Humanities and If 3 hours *At least one course must be selected from HISTORY 1200, H Select 6 hour Survey British Lit: Beginnings - 1784 or Survey British Lit: Romantic-Present or Survey American Lit: 1865-Present or Word Literature I or US History Since 1877* or Art Appreciation or Music Appreciation or Theatre Appreciation *Sautsfies the State of Missouri government requirement. Behalt Western Civilization I or	al Scier in each ine Arts (Behavior 1300, 131(umanities from at	group below, select 12 hor rom at least two specific dis al and Social Sciences. or POL SCI 1200 to satisfy as and Fine Arts east two specific discipline: ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1223 or ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150 or THEATRE 1150 Ind Social Sciences ct 3 hours. HISTORY 1100 or	on Requirements urs to include sciplines and y the State of Missouri government requirement. S. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1805 to Present or World Literature: 1865 to Present or World Literature: 1865 to Present or World Literature: 1877 or American History Since 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "Satisfies the State of Missouri government requirement. Early Western Civilization or	
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ENG 210 or ENG 221 or ENG 221 or ENG 222 or ENG 122 or HST 101* or HST 102* or ART 101 or MUS 101 or THE 101 CIV 201 or CIV 202* or GRY 101 or PSC 102* or PSC 102* or	Humanities, Arts, and Soci From the options listed 6 hours Humanities and I 3 hours *At least one course must be selected from HISTORY 1200, Hamber of Select 6 hours Survey British Lit: Beginnings - 1784 or Survey British Lit: Romanitic-Present or Survey American Lit: Beginnings - 1865 or Survey American Lit: Beginnings - 1865 or Survey American Lit: 1865-Present or World Literature I or US History Since 1877* or Art Appreciation or Music Appreciation or Theatre Appreciation "Satisfies the State of Missouri government requirement. Beham Western Civilization II* or World Geography or US Government I: National and State* or General Psychology or	al Scier in each ine Arts (Behavior 1300, 131(umanities from at	group below, select 12 hor rom at least two specific dia al and Social Sciences. o, or POL SCI 1200 to satisfy as and Fine Arts east two specific discipline: ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150 or THEATRE 1150 Ind Social Sciences at 3 hours. HISTORY 1100 or HISTORY 1200° or HISTORY 2100 or HISTORY 2110 or	Total Hours on Requirements urs to include sciplines and y the State of Missouri government requirement. S. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1805 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877 or American History to 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "Satisfies the State of Missouri government requirement. Early Western Civilization or Modern Western Civilization" or World Regional Geography or American Government" or General Psychology or	
ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124 or HST 101* or HST 101* or MUS 101 or THE 101 CIV 201 or CIV 202* or GRY 101 or PSC 102* or PSY 101 or ECO 102 or ECO 102 or	Humanities, Arts, and Soci From the options listed 6 hours Humanities and F 3 hours *At least one course must be selected from HISTORY 1200, Heart one course must be selected from HISTORY 1200, Survey British Lit: Beginnings - 1784 or Survey British Lit: Romantic-Present or Survey American Lit: Beginnings - 1865 or Survey American Lit: 1865-Present or World Literature 1 or US History to 1877* or US History to 1877* or Art Appreciation or Theatre Appreciation or Theatre Appreciation or Theatre Appreciation If Western Civilization II* or World Geography or US Government: National and State* or General Psychology or Principles of Microeconomics or Principles of Microeconomics or	al Scier in each fine Arts i Behavior 1300, 1310 umanities from at	group below, select 12 hor rom at least two specific dis al and Social Sciences. Or POL SCI 1200 to satisfy a sand Fine Arts east two specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1221 or ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150 or THEATRE 1150 and Social Sciences at 3 hours. HISTORY 1100 or HISTORY 12100° or HISTORY 12100 or POL SCI 1200° or PSYCH 1101 or ECON 1100 or ECON 1200 or EC	on Requirements urs to include sciplines and y the State of Missouri government requirement. S. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1805 to Present or World Literature: 1865 to Present or World Literature: 1865 to Present or World Literature: 1877 or American History to 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "Satisfies the State of Missouri government requirement. Early Western Civilization or Modern Western Civilization or World Regional Geography or American Government* or General Psychology or Principles of Microeconomics or Principles of Microeconomics or	6
ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124 or HST 101* or HST 101 or MUS 101 or THE 101 CIV 201 or CIV 202* or GRY 101 or PSC 102* or PSY 101 or ECO 102 or ECO 102 or	Humanities, Arts, and Sociarion the options listed 6 hours Humanities and 6 hours Albert 1900. *At least one course must be selected from HISTORY 1200. *Burvey British Lit: Beginnings - 1784 or Select 6 hours Survey American Lit: Beginnings - 1865 or Survey American Lit: 1865-Present or World Literature 1 or US History to 1877* or US History Since 1877* or Art Appreciation or Music Appreciation or Theatre Appreciation Theatre Appreciation *Satisfies the State of Missouri government requirement. *Behamanities State of Missouri History Since 1877* or US Government I: National and State* or General Psychology or US Government I: National and State* or General Psychology or Principles of Microeconomics or	al Scier in each fine Arts i Behavior 1300, 1310 umanities from at	group below, select 12 hor rom at least two specific dis al and Social Sciences. o, or POL SCI 1200 to satisfy as and Fine Arts east two specific discipline: ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1221 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150 or THEATRE 1150 at Social Sciences at 3 hours. HISTORY 1100 or HISTORY 2110 or POL SCI 1200° or PSYCH 1101 or ECON 1100 or	on Requirements urs to include sciplines and y the State of Missouri government requirement. S. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 to 1865 or American Literature: 1865 to Present or World Literature: 1865 to Present or World Literature: 1865 to Present or American History to 1877 or American History Since 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "satisfies the State of Missouri government requirement. Early Western Civilization or Modern Western Civilization or World Regional Geography or American Government* or General Psychology or Principles of Microeconomics or	6
ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124 or HST 101* or HST 101* or MUS 101 or THE 101 CIV 201 or CIV 202* or GRY 101 or PSC 102* or PSY 101 or ECO 102 or ECO 102 or	Humanities, Arts, and Soc From the options listed 6 hours Humanities and III all and III	al Scier in each fine Arts i Behavior alson, 1311 umanitie s from at 6 avioral at Sele	group below, select 12 hor rom at least two specific dis al and Social Sciences. Or POL SCI 1200 to satisfy a sand Fine Arts east two specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1221 or ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150 or THEATRE 1150 and Social Sciences at 3 hours. HISTORY 1100 or HISTORY 12100° or HISTORY 12100 or POL SCI 1200° or PSYCH 1101 or ECON 1100 or ECON 1200 or EC	on Requirements urs to include sciplines and y the State of Missouri government requirement. S. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 to 1865 or American Literature: 1865 to Present or World Literature: 1865 to Present or World Literature: 1865 to Present or American History to 1877 or American History to 1877 or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "Satisfies the State of Missouri government requirement. Early Western Civilization or Modern Western Civilization or World Regional Geography or American Government" or General Psychology or Principles of Microeconomics or Principles of Microeconomics or Elementary or Intermediate Foreign Language	6
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