University of Missouri

Bachelor of Science in Computer Engineering Transfer Guide for Three Rivers Community College

This plan is intended only as a general guide based on requirements in the 2013-2014 University of Missouri undergraduate catalog. Check the following web sites for current course descriptions, prerequisites, course equivalencies and other specific details about the Computer Engineering major:

- 1) College Catalog (http://registrar.missouri.edu/)
- 2) Transfer Equivalencies (http://transfercourses.missouri.edu)
- 3) General Education (http://generaleducation.missouri.edu)
- 4) Electrical Engineering (http://engineering.missouri.edu/ece/degree-programs/)

For more information, contact the Department of Electrical and Computer Engineering at 573-882-2648 or Beattyt@missouri.edu.

University of Missouri		Three Rivers Community College			
COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)			
Mathematics (22 credits)	_				
MATH 1500 Analytic Geometry and Calculus I	5	MATH 171 Analy Geom&Calc I (5)			
MATH 1700 Calculus II	5	MATH 271 Analy Geom&Calc II (5)			
MATH 2300 Calculus III	3	MATH 272 Analy Geom&Calc III (5)			
MATH 4100 Differential Equations	3	None			
STAT 4710 Intro to Mathematical Statistics	3	None			
Math 2320 Discrete Mathematical Structures	3	None			
Physics and Chemistry (14 credits)					
CHEM 1320 College Chemistry I	4	CHEM 121 Gen Chemistry I (5)			
PHYSCS 2750 University Physics I	5	PHYS 211 General Physics I (5)			
PHYSCS 2760 University Physics II	5	PHYS 212 General Physics II (5)			
English Exposition and Argumentation (3 credits)					
ENGLSH 1000 Exposition and Argumentation	3	ENGL 112 Adv College Writing (3)			
Behavioral & Social Science (9 credits) Courses from at least to	wo differe	ent departments.			
State Requirement in Government or History	3	Select state requirement from the general education list.			
Social or Behavioral Science Elective	3	Colored and the best of the colored and the co			
Social or Behavioral Science Elective	3	Select <u>social</u> or <u>behavioral</u> sciences from the general education list.			
Humanities/Fine Arts (Option 1 – Conventional Track) (9 credi	its) • Only	one humanities/fine arts track (Conventional or Foreign Language) must			
		aximum of 3 credit hours for skills classes • No foreign language courses			
may be used for this option					
Humanity 1	3				
Humanity 2	3	Select humanities from the general education list.			
Humanity 3	3				
•	credits)	Only one humanities/fine arts track (Conventional or Foreign Language)			
must be completed • Minimum of 12 college transcripted hou					
Foreign Language 1	5				
Foreign Language 2	5	Select <u>foreign language</u> courses from the general education list.			
Foreign Language 3	3	General Genera			
Upper Level General Education (3 credits)					
At least 3 credit hours of behavioral science, social science or humanity must be at the 2000-level or above					
☑ Upper-level general education courses may also count toward b					
— Opper level general education courses may also count tomard s		Select 200/2000-level behavioral science, social science, or humanity			
Upper Level Course	3	from the general education list. Level is based upon the community			
opper zere: ocurse		college course number, NOT the MU equivalent.			
Writing Intensive (6 credits)		tonege course number, not the mo equivalent.			
Writing intensive (o creates) Writing intensive course (humanity, social or behavioral					
science or technical elective)	3	Must be taken at MU			
ECE 4970 Capstone Design	3	Must be taken at MU			
Engineering (59 credits)		Must be taken at Mo			
CS 1050 Algorithm Design and Programming	3	None			
CS 2050 Algorithm Design and Programming II	3				
	3	None			
Select one of the following:		None			
ENGINR 1200 Statics and Elementary Strength of Materials	3				
ENGINR 2300 Engineering Thermodynamics					
IMSE 2710 Engineering Economic Analysis	_	Nana			
ECE 1000 Intro to Electrical and Computer Engineering	2	None			
ECE 1210 Intro to Logic Systems	3	None			

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COURSE	CREDITS	EQUIVALENT COURSE (CREDITS)		
ECE 2100 Circuit Theory I	4	None		
ECE 3210 Microprocessor Engineering	4	None		
ECE 3220 Computing for Embedded Systems	3	None		
ECE 3810 Circuit Theory II	4	None		
ECE 3410 Electronic Circuits and Signals I	4	None		
ECE 3830 Signals and Linear Systems	3	None		
ECE 4220 Real Time Embedded Systems	3	None		
ECE 4250 VHDL and Programmable Logic Devices	4	None		
ECE 4270 Microcomputer Architecture and Interfacing	4	None		
ECE 3110 Electrical and Computer Engineering Projects	3	None		
ECE 4970 Senior Capstone Design(Writing Intensive)	3	None		
Technical Elective (9 credits)				
ECE or CS 3000+ or Math, Physics, Chemistry, BioE, ChemE,	9	Neve		
Civil, IMSE, MAE Engr.2000+	9	None		
ECE Electives (6 credits)				
ECE Electives (4000+)	6	None		
Free Electives (1 credit)				
Total Hours for BS in Computer Engineering	126			

General Education Courses Three Rivers Community College

Three Rivers Community College Course	MU Equivalent	Three Rivers Community College Course	MU Equivalent
Behavioral Sciences		Social Sciences (◆=State Requirement)	
ANTH 211 Intro to Anthropology (3)	ANTHRO 1000	ECON 211 Prin of Macroecon (3)	ECONOM 1015
PSYC 111 Gen Psychology (3)	PSYCH 1000	ECON 212 Prin of Microecon (3)	ECONOM 1014
PSYC 112 Psych of Pers Adjust (3)	PSYCH BEH	GEOG 111 Reg World Geog I (3)	GEOG 1200
PSYC 223 Child Psychology (3)	PSYCH 2410	GEOG 112 Reg World Geog II (3)	GEOG 1100
PSYC 233 Adolescent Psych (3)	PSYCH BEH	GNST 111 Personal Finance (3)	FINPLN 2183
PSYC 243 Human Dev Across Life (3)	PSYCH BEH	◆GOVT 111 Intro Political Sci (3)	POL SC 1700
SCOM 210 Interpers Comm (3)	COMMUN 3561	◆GOVT 121 National & State Gov't (3)	POL_SC 1700
SOCI 111 Gen Sociology (3)	SOCIOL 1000	GOVT 121 National & State GOVT (3)	POL_SC 4320
SOCI 221 Race & Ethnicity (3)	SOCIOL BEH	GOVT 220 Missouri Gov't (1)	POL_SC SSC
SOCI 223 Marriage & the Family (3)	SOCIOL 3420	◆GOVT 223 State & Local Gov't (3)	POL_3C 33C POL_SC 2100
SOCI 230 Criminology (3)	SOCIOL 3420 SOCIOL 3600	* *	_
Soci 230 Criminology (3)	300101 3000	GOVT 233 International Relations (3)	POL_SC 1400
Humanities		♦HIST 111 Amer Hist to 1877 (3)	HIST 1100
ARTS 110 Intro to Art (3)	ART_GNR1010	◆HIST 112 Amer Hist since 1877 (3)	HIST 1200
ARTS 123 Hist&Apprec of Art (3)	-	HIST 121 World Civ to Renaiss (3)	HIST SSC
	ART_GNR1020	HIST 122 World Civ since Renaiss (3)	HIST SSC
ENGL 221 World Lit to 1600 (3)	ENGLSH 2155	HIST 201 Evil:Historical Persp (3)	HIST SSC
ENGL 222 World Lit since 1600 (3)	ENGLSH 2155	HIST 211 The US since 1945 (3)	HIST SSC
ENGL 223 Classical Mythology (3)	CL_HUM 1060	SOCI 234 Social Problems (3)	SOCIOL 3010
ENGL 231 English Lit to 1798 (3)	ENGLSH 2200		
ENGL 232 English Lit since 1798 (3)	ENGLSH 2200	Foreign Language	
ENGL 233 Shakespeare (3)	ENGLSH 2160	SPAN 101 Elem Spanish I (3)	SPAN 1100A
ENGL 241 Amer Lit to 1870 (3)	ENGLSH 2300	SPAN 102 Elem Spanish II (3)	SPAN 1100B
ENGL 242 Amer Lit since 1870 (3)	ENGLSH 2300	SPAN 201 Interm Spanish I (3)	SPAN 1200
ENGL 281 Old Testament Lit (3)	REL_ST 2500	SPAN 202 Interm Spanish II (3)	SPAN 2100
ENGL 282 New Testament Lit (3)	REL_ST 2510		
FILM 122 HIst & Apprec of Film (3)	FILM_S HUM		
HNRS 220 Hnrs Multi-Disc Sem (3)	MISC HUM		
MCOM 101 Mass Comm & Society (3)	COMMUN 2100		
MUSC 123 Hist & Apprec of Music (3)	MUSIC NM 1310		
MUSC 221 Music Literature I (3)	MUSIC_NHUM		
MUSC 222 Music Literature II (3)	MUSIC_NHUM		
PHIL 200 Intro to Philosophy (3)	PHIL 1000		
PHIL 223 Literature of Bible (3)	REL_ST HUM		
PHIL 233 Ethics (3)	PHIL 1100		
PHIL 243 Religions of the World (3)	REL_ST 2110		
SCOM 110 Public Speaking (3)	COMMUN 1200		
SCOM 243 Argument & Debate (3)	COMMUN 3572		
THEA 120 Hist & Apprec of Theater (3)	THEATR HUM		
VALU 161 Values, Econ & Decision (3)	MISC HUM		
VALU 180 Ideas in Living (3)	MISC HUM		
VALU 181 Images of Women (3)	WMN ST HUM		
VALU 182 Music of the World (3)	MUSIC_NHUM		
VALU 190 World Foods & Society (3)	MISC HUM		
1.125 255 World Foods & Society (5)			