University of Missouri Bachelor of Science in Computer Engineering Transfer Guide for Crowder 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 (<u>http://registrar.missouri.edu/</u>)
- 2) Transfer Equivalencies (<u>http://transfercourses.missouri.edu</u>)
- 3) General Education (<u>http://generaleducation.missouri.edu</u>)

4) Electrical Engineering (<u>http://engineering.missouri.edu/ece/degree-programs/</u>)

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

University of Missouri		Crowder College		
course Mathematics <i>(22 credits)</i>	CREDITS	EQUIVALENT COURSE (CREDITS)		
MATH 1500 Analytic Geometry and Calculus I	5	MATH 150 & 160 Calc I, Part I & II (5)		
MATH 1500 Analytic Geometry and Calculus I MATH 1700 Calculus II	5	MATH 201 Calc II (5)		
MATH 1700 Calculus II MATH 2300 Calculus III	3	MATH 201 Calc III (5) MATH 202 Calc III (5)		
MATH 2500 Calculus III MATH 4100 Differential Equations	3	MATH 202 Calc III (3) MATH 210 Differential Equations (3)		
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 111 Con Chamistry I (E)		
- · · ·	5	CHEM 111 Gen Chemistry I (5) PHYS 190 Gen Physics I (5)		
PHYSCS 2750 University Physics I				
PHYSCS 2760 University Physics II	5	PHYS 210 Gen Physics II (5)		
English Exposition and Argumentation (3 credits)	2	ENCL 402 Adv. English Course (2) OD and 404 User and English Course (2)		
ENGLSH 1000 Exposition and Argumentation	3	ENGL 102 Adv English Comp (3) OR eng 104 Honors English Comp (3)		
Behavioral & Social Science (9 credits) Courses from at least t				
State Requirement in Government or History	3	Select state requirement from the general education list.		
Social or Behavioral Science Elective	3	Select <u>social</u> or <u>behavioral</u> sciences from the general education list.		
Social or Behavioral Science Elective	3			
		one humanities/fine arts track (Conventional or Foreign Language) must aximum of 3 credit hours for skills classes • No foreign language courses		
Humanity 1	3			
Humanity 2	3	Select humanities from the general education list.		
Humanity 3	3			
		• Only one humanities/fine arts track (Conventional or Foreign Language)		
must be completed • Minimum of 12 college transcripted hou	rs in a sin	gle foreign language • Satisfies the 2000-level requirement		
Foreign Language 1	5			
Foreign Language 2	5	Select <u>foreign language</u> courses from the general education list.		
Foreign Language 3	3			
Upper Level General Education (3 credits)				
At least 3 credit hours of behavioral science, social science or h				
W Upper-level general education courses may also count toward b	pehavioral			
	3	Select 200/2000-level behavioral science, social science, or humanity		
Upper Level Course		from the general education list. Level is based upon the community		
		college course number, NOT the MU equivalent.		
Writing Intensive (6 credits)				
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)				
CS 1050 Algorithm Design and Programming	3	None		
CS 2050 Algorithm Design and Programming II	3	None		
Select one of the following:				
ENGINR 1200 Statics and Elementary Strength of Materials ENGINR 2300 Engineering Thermodynamics IMSE 2710 Engineering Economic Analysis	3	None		
	2	None		
ECE 1000 Intro to Electrical and Computer Engineering	L 2	NOTIC		

University of Missouri		Crowder College			
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	None			
Civil, IMSE, MAE Engr.2000+		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 Crowder College

Crowder College Course	MU Equivalent	Crowder College Course	MU Equivalent
Behavioral Sciences		Social Sciences (= State Requirement)	
PSYC 101 Gen Psychology (3)	PSYCH 1000	AGEC 123 Prin Agric Econ (3)	AG_EC 1041
PSYC 110 Psych of Pers Adj (3)	PSYCH BEH	BSAD 108 Personal Finance (3)	FINANC 1000
PSYC 210 Child Psych (3)	PSYCH 2410	ECON 201 Prin of Econ I (Macro) (3)	ECONOM 1015
PSYC 215 Adolescent Psych (3)	PSYCH BEH	ECON 202 Prin of Econ II (Micro) (3)	ECONOM 1014
SOC 101 Gen Sociology (3)	SOCIOL 1000	GEOG 101 Prin of Geography (3)	GEOG SSC
SOC 103 Marriage & Family (3)	SOCIOL 3420	HIST 101 Western Civil I (3)	HIST 1500
		HIST 102 Western Civil II (3)	HIST 1510
Humanities		HIST 106 US History I (3)	HIST 1100
ART 101 Art Appreciation (3)	ART_GNR1020	HIST 107 US History II (3)	HIST 1200
COMM 101 Intro to Mass Comm (3)	COMMUN 2100	PLSC 102 MO Constitution (1)	POL_SC SSC
ENGL 109 Intro to Literature (3)	ENGLSH LIT	PLSC 103 Nat, State, Local Govt (3)	POL_SC 1100
ENGL 120 Masterpieces Wld Lit I (3)	ENGLSH LIT	PLSC 104 Nat, St, Local Govt Hnr (3)	POL_SC 1100
ENGL 125 Masterpiece World Lit II (3)	ENGLSH LIT	PLSC 201 Cont Pol Act of US (2)	POL_SC SSC
HUM 102 Cultural Diversity (3)	MISC HUM	PLSC 205 Intro Political Sci (3)	POL_SC 1700
MUSC 101 Music Appreciation (3)	MUSIC_N1310		
PHIL 101 Intro Western Phil (3)	PHIL 1000	Foreign Language	
PHIL 121 World Religions (3)	REL_ST 2110	FREN 101 Begin French I (3)	FRENCH 1100A
PHIL 201 Logic (3)	PHIL 1200	FREN 102 Begin French II (3)	FRENCH 1100B
PHIL 202 Ethics (3)	PHIL 1100	FREN 201 Interm French I (3)	FRENCH 1200
SPAN 103 Intro Hispanic Culture (3)	SPAN HUM	FREN 202 Interm French II (3)	FRENCH 2100
SPCH 101 Fund of Speech (3)	COMMUN 1200	SPAN 101 Begin Spanish I (3)	SPAN 1100A
TA 105 Acting I (3)	THEATR 1400	SPAN 102 Begin Spanish II (3)	SPAN 1100B
TA 205 Intro Theatre (3)	THEATR 1100	SPAN 105 Convers Span (3)	SPAN 1100A
		SPAN 106 Convers Span II (3)	SPAN 1100B

SPAN 201 Interm Spanish (3)

SPAN 202 Interm Spanish II (3)

SPAN 1200

SPAN 2100