Central Texas College District Associate of Science in Engineering (AS-ENGF4) (AS-ENGR)

SOCAD-2 Network: Open Fort Hood, TX

Degree Objective- Prepares graduates for transfer to university programs of study by introducing a broad base of concepts in the humanities, social/behavioral sciences, mathematics, and natural and physical sciences. Graduates receiving the associate of science degree will be prepared for further study at the university level in the sciences, engineering, and other professional and related fields. The degree plan comprises 60 semester credit hours of which 49 are in general education courses and 11 are in engineering. This degree is appropriate for transfer into a bachelor-level degree program.

POINT OF CONTACT

Debbie Hansen, Director of Evaluations & Graduation P.O. Box 1800, Killeen, TX 76540 (254) 526-1394 or (800) 792-3348, ext. 1394 Fax (254) 526-1481 ctc.socad@ctcd.edu www.ctcd.edu

Academic Residency- 15 semester hours

DEGREE DEGLUDENENTO									
DEGREE REQUIREMENTS		SOC CAT.	HOME COLLEGE	ARMY SCHOOL	ARMY MOS	TESTS	CERT /LIC	DIST LRNG	
								See Note 2	
General Education								2	
English	3 SH								
ENGL 1301 Composition I	3	EN201A	Х			Х		Х	
Speech	3 SH								
SPCH 1315 Public Speaking	3	CM001A	Х			Х		Х	
SPCH 1318 Interpersonal Communication	3		Х						
SPCH 1321 Business and Professional Communication	3		Х					Х	
Mathematics	8 SH								
MATH 2413 Calculus I	4	MH055A	Х			Х		Х	
MATH 2414 Calculus II	4	MH056A	Х			Χ		Х	
Life and Physical Sciences	8 SH								
CHEM 1411 General Chemistry I AND	4	CH003A	Х			Х			
CHEX 1411 General Chemistry I-Lab	0		Х						
PHYS 2426 University Physics II AND	4		Х						
PHYX 2426 University Physics II Lab	0		Х						
Creative Arts	3 SH								
ARTS 1303 Art History I	3		Х					Х	
ARTS 1304 Art History II	3		Х					Х	
ARTS 1311 Design I (2-dimensional)	3		Х						
DRAM 1310 Introduction to Theater	3		Х						
DRAM 2366 Introduction to Cinema	3		Х						
HUMA 1315 Fine Arts Appreciation	3		Х						
MUSI 1301 Fundamentals of Music I	3		Х						
Language, Philosophy, and Culture	3-4 SH								
ANTH 2351 Cultural Anthropology	3	AN002A	Х					Х	
DRAM 2361 History of Theatre I	3		Х						
DRAM 2362 History of Theatre II	3		Х						
ENGL 2322 British Literature I	3	EN342A	Х			Х		Х	
ENGL 2323 British Literature II	3		Х			Х		Х	
ENGL 2327 American Literature I	3	EN332A	Х			Х		Х	
ENGL 2328 American Literature II	3	EN333A	Х			Х		Х	
ENGL 2332 World Literature I	3	EN322A	Х					Х	
ENGL 2333 World Literature II	3	EN323A	Х					Х	
FREN 1411 Beginning French I	4		Х			Х			
FREN 1412 Beginning French II	4		Х			Х			
GERM 1411 Beginning German I	4		X			X			
GERM 1412 Beginning German II	4		X			X			
MUSI 1306 Music Appreciation	3		X						
MUSI 1307 Music Literature	3		X						
PHIL 1301 Introduction to Philosophy	3	PL079A	X					Х	
PHIL 1304 Introduction to Philosophy PHIL 1304 Introduction to World Religions	3	I LUI SA	X		-	Х		X	
PHIL 2306 Introduction to World Religions PHIL 2306 Introduction to Ethics	3	PL081A			 	^		X	
		PLUSIA			 				
1 7	3		X					X	
PHIL 2321 Philosophy of Religion	3		X	,,				X	
RUSS 1411 Beginning Russian I	4		X	X				X	
RUSS 1412 Beginning Russian II	4		Х	X				Х	
SPAN 1411 Beginning Spanish I	4		Х			Х			
SPAN 1412 Beginning Spanish II	4		Х			Х			
Social/Behavioral Science	15 SH								
GOVT 2305 Federal Government	3		Х			Х		Х	
GOVT 2306 Texas Government	3	HI201A	Х			X		X	
HIST 1301 United States History I	3		X			Χ		X	

HIST	1202	United States History II	2	HI202A		т			г т	
		lowing courses:	3	HIZUZA	Х			Х		Х
AGRI		Introduction to Agriculture Economics	3		Х				Т	Х
ECON		Principles of Macroeconomics	3	EC201A	X	 		Х	\vdash	X
ECON		Principles of Microeconomics	3	EC301A	X			X		X
GEOG		Physical Geography	3	LOSOTA	X	 		_^		X
GEOG		Cultural Geography	3	GE021A	X	 		Х		X
GEOG		World Regional Geography	3	GE023A	X			<u> </u>		X
GOVT		Introduction to Political Science	3		X					X
HIST		Texas History	3		X					X
HIST		Western Civilization I	3	HI301A	Х			Х		Х
HIST	2312	Western Civilization II	3		Х			Х		Х
HIST	2381	African-American History	3		Х					Х
PSYC	2301	General Psychology	3	PS101A	Х			Х		Х
PSYC	2308	Child Psychology	3		Х			Х		Х
PSYC	2314	Life Span Growth and Development	3		Х			X		Χ
PSYC	2315	Psychology of Adjustment	3		Х					Χ
PSYC	2316	Psychology of Personality	3		Х					Х
SOCI	1301	Introduction to Sociology	3	SO001A	X			X		X
SOCI	1306	Social Problems	3	SO002A	X					X
SOCI		Marriage and the Family	3		Х					Х
SOCI		Minority Studies	3		Х				ш	Х
Componer		<u>'</u>	3-4 SH							
AGRI		Agronomy	4		X	<u> </u>			igsquare	
AGRI		Horticulture	4	<u> </u>	X	└	<u> </u>	<u> </u>	igsquare	
AGRI		Introductory Animal Science (Animal Husbandry)	4		X	└	<u> </u>	<u> </u>	igsquare	
AGRI		Introduction to Agriculture Economics	3		X	└	<u> </u>	<u> </u>	igsquare	
ANTH		Cultural Anthropology	3	AN002A	X	 			\longmapsto	
ARTS		Art History I	3		X			Х	\longmapsto	X
ARTS		Art History II	3		X				\longmapsto	Х
ARTS		Design I	3		X				\vdash	
BCIS		Business Computer Applications	3	DI 000A	X			- V	-	Х
BIOX		Biology for Science Majors I AND	4 0	BL003A	X			Χ	\vdash	
BIOL		Biology for Science Majors I Lab Biology for Science Majors II AND	4	BL003A	X			Х	\vdash	
BIOX		,	0	BLUUSA	X			^	\vdash	
BIOL		Biology for Science Majors II Lab Biology for Non-Science Majors I AND	4		X				\vdash	
BIOX		Biology for Non-Science Majors I Lab	0		X	 			\vdash	
BIOL		Biology for Non-Science Majors II AND	4		X				\vdash	
BIOX		Biology for Non-Science Majors II Lab	0		X			—		
BIOL		General Botany AND	4		X				\vdash	
BIOX		General Botany - Lab	0		X	 	 			
BIOL		General Zoology AND	4		X					
BIOX		General Zoology - Lab	0		X					
BIOL		Anatomy and Physiology I AND	4		Х	†	<u> </u>			
BIOX		Anatomy and Physiology I Lab	0		Х	†	<u> </u>			
BIOL		Anatomy and Physiology II AND	4		Х					
BIOX		Anatomy and Physiology II Lab	0		Х					
BIOL	2420	Microbiology for Non-Science Majors AND	4		Х					
BIOX		Microbiology for Non-Science Majors Lab	0		Х					
BIOL		Microbiology for Science Majors AND	4		Х					
BIOX	2421	Microbiology for Science Majors Lab	0		Х					
CHEM		Introductory Chemistry I AND	4		Х					
CHEX		Introductory Chemistry I-Lab	0		Х					
CHEM		Introductory Chemistry II AND	4		Х					
CHEX		Introductory Chemistry II-Lab	0		Х					
		General Chemistry II AND	4	CH003A	Х	<u> </u>	<u> </u>	Х	ш	
CHEX		General Chemistry II-Lab	0	05::	X	<u> </u>			ш	
COSC		Introduction to Computing	3	CS101A	X	Х	Х	Х	igsquare	Х
DRAM		Introduction to Theater	3		X	<u> </u>			igsquare	
DRAM		History of Theatre I	3		X	<u> </u>	<u> </u>		ш	
DRAM		History of Theatre II	3		X	<u> </u>		——	\longmapsto	
DRAM		Introduction to Cinema	3	FCCC	X	 	<u> </u>		┷	
ECON		Principles of Macroeconomics	3	EC201A	X	 		X	igspace	<u> </u>
ECON		Principles of Microeconomics	3	EC301A	X			Х	\longmapsto	
ENGL		Composition II	3	EN203A	X	 		$\vdash \!$	igspace	<u> </u>
ENGL		British Literature I	3	EN342A	X	 	 	V	\longmapsto	
ENGL		British Literature II	3	EN222A	X	├		Х	\longmapsto	Х
ENGL ENGL		American Literature I	3	EN332A	X	 	 		\longmapsto	
	2328	American Literature II	3	EN333A	Х			1		
-		World Literature L	2	ENISSO A	~					
ENGL ENVR	2332	World Literature I Environmental Science I AND	3	EN322A	X	<u> </u>	-	Х		

ENVX	1401	Environmental Science I-Lab	0		Χ				Х	
FREN		Beginning French I	4		Х	Х		Х	Х	Х
FREN		Beginning French II	4		Х	Х		Х	Х	Х
		Physical Geography	3		Х					Х
		Cultural Geography	3	GE021A	Х			Х		Χ
		World Regional Geography	3	GE023A	Χ			Х		Χ
GEOL		Physical Geology AND	4	EA014A	X			X		
		Physical Geology Lab	0		Х					
GEOL		Historical Geology AND	4		Х					
GEOX		Historical Geology Lab	0		X					
GERM		Beginning German I	4		X	Х		Х	Х	Х
GERM		Beginning German II	4		X	X		X	X	X
GOVT		Introduction to Political Science	3		X			,		
HIST		Texas History	3		X					Х
HIST		Western Civilization I	3	HI301A	X			Х		X
HIST		Western Civilization II	3	THOUTA	X			X		X
HIST		African-American History	3		X					X
HUMA		Fine Arts Appreciation	3		X			Χ		X
KINE		Aerobics I	1		X			^		^
KINE			1		X					
-		Aerobics II Badminton I								
KINE			1		X					
KINE		Badminton II	1		X					
KINE		Ballet I	1		X					
KINE		Ballet II	1		X					
KINE		Basketball I	1		X					
KINE		Basketball II	1		X					
KINE		Bowling I	1		Х					
KINE		Bowling II	1		Х					
KINE		Fitness Walking I	1		Х					
KINE	1111	Fitness Walking II	1		X					
KINE	1112		1		X					
KINE	1113	Golf II	1		X					
KINE	1114	Spin Bike I	1		X					
KINE	1115	Spin Bike II	1		Х					
KINE	1116	Jazz Dance I	1		Х					
KINE	1117	Jazz Dance II	1		Х					
KINE	1118	Jujutsu I	1		X					
KINE	1119	Jujutsu II	1		Х					
KINE	1120	Tae Kwon Do I	1		Х					
KINE	1121	Tae Kwon Do II	1		Х					
KINE		Kickboxing/Aerobics I	1		Χ					
KINE		Muay Thai Kickboxing I	1		Χ					
KINE		Muay Thai Kickboxing II	1		X					
KINE		Physical Conditioning I	1		Χ	Х	Х			
KINE		Physical Conditioning II	1		X	X	X			
KINE		Soccer I	1		X					
KINE		Soccer II	1		X					
KINE		Softball I	1		X					
KINE		Softball II	1		X					
KINE		Barbell Fitness I	1		X					
KINE		Swimming I	1		X	X	Х			
KINE		Swimming II	1		X	X	X			
KINE		Swimming III	1		X	X	X		\vdash	
KINE		Tennis I	1		X	^	^			
KINE		Tennis II	1		X				\vdash	
KINE		Volleyball I	1		X					
KINE		Volleyball II	1		X					
KINE		Water Acrobics I	1		X					
KINE		Water Aerobics II	1		X					
KINE		Weight Training I	1		X					
KINE		Weight Training II	1		X					
KINE		Weight Training III	1		X					
KINE		Yoga I	1		Х					
KINE		Yoga II	1		Х					
KINE		Kickboxing/Aerobics II	1		Χ					
KINE		Jogging I	1		Χ					
KINE		Jogging II	1		X					
KINE		Pilates I	1		Χ					
KINE		Pilates II	1		X					
KINE		Bootcamp Fitness I	1							
KINE		Bootcamp Fitness II	1							
KINE	1158	Eagle Fit I	1							
R-			_		•		-			

KINE 1	159 Eagle Fit II	1							
	100 Zoomba Cardio	1		Х					
	101 Aquatic Zoomba	1		X					
	102 Aquatic Zoomba II	1		X		1			
	103 Recreational Activities	1	_	X					
	103 Recreational Activities 104 Zoomba Cardio II								
		1		X					
	105 Krav Self-Defense I	1	_	X					
	106 Krav Self-Defense II	1		Х					
	132 Barbell Fitness II	1		Х					
	Contemporary Mathematics (Quantitative Reasoning)	3	MH051A				Х		Х
	342 Elementary Statistical Methods	3	MH053A				X		Χ
	Pre-Calculus Math	4		Х					Χ
	Fundamentals of Music I	3		X					
MUSI 1	Music Appreciation	3		X					Χ
MUSI 1	307 Music Literature	3		Х					Χ
PHIL 1	301 Introduction to Philosophy	3	PL079A	Х					X
PHIL 1	304 Introduction to World Religions	3		Х			Х		Χ
PHIL 2	306 Introduction to Ethics	3	PL081A	Х			Х		Х
PHIL 2	Introduction to Social and Political Philosophy	3		Х					Х
	321 Philosophy of Religion	3		Х					Х
	401 College Physics I	AND 4	PY003A	Х	1	1	i e		
	401 College Physics I Lab	0		Х					
	402 College Physics II	AND 4	PY003A	Х					
	402 College Physics II Lab	0		X					
	403 Stars and Galaxies	AND 4		X			Х		Х
	403 Stars and Galaxies - Lab	0		X			^		X
	404 Solar System	AND 4		X					X
	404 Solar System - Lab	0	_	X					X
	415 Physical Science I	AND 4	_	X			Х		^
	,	0		X			^		
	415 Physical Science I Lab		D0404A				V		V
	301 General Psychology	3	PS101A				X		X
	308 Child Psychology	3		X			X		X
	314 Life Span Growth and Development	3		Х			Х		X
	Psychology of Adjustment	3		Х					Х
	Psychology of Personality	3		Х					Χ
	Beginning Russian I	4		Х	Х		Х		Χ
	412 Beginning Russian II	4		Х	Х		Х		Χ
	301 Introduction to Sociology	3	SO001A				X		Χ
SOCI 1	306 Social Problems	3	SO002A						Χ
	Marriage and the Family	3		Х					Х
SOCI 2	319 Minority Studies	3		Х					Χ
SPAN 1	411 Beginning Spanish I	4		Х	Х		Х	Х	Χ
	412 Beginning Spanish II	4		Х	Х		Х	Х	X
SPCH 1	Public Speaking	3	CM001A	. X	Х	Х	Х		Χ
SPCH 1	318 Interpersonal Communication	3		Х	Х	Х			
	321 Business and Professional Communication	3		Х	Х	Х			Х
KINE E	LEC Physical Activity			Х	Х	Х			
PHED E	LEC Physical Activity			Х	Х	Х			
Major Requir		14 S	1						
	201 Introduction to Engineering	2		Х	Х				Х
	301 Engineering Mechanics - Statics	3		Х	1	1	i e		Х
	302 Engineering Mechanics - Dynamics	3		Х		1			Х
	305 Electrical Circuits I	3		Х					-
	332 Mechanics of Materials	3		Х					
Total Credits		60 S	1						
			_						

Notes:

- 1) Students not prepared to enroll in MATH 2314 may be required to take MATH 2412.
- 2) An "X" in a column indicates that the Institution guarantees to accept credit from the source shown for at least part of the requirement.
- 3) This column indicates whether a school accepts transfer credit for courses taken through distance learning. It does not mean that the school offers the course through distance learning.
- 4) A course may be used toward one requirement only.
- 5) Only lower-level courses are accepted in transfer unless a CTC equivalent course is listed in the appropriate SOC transfer guarantee.
- 6) The student is responsible for meeting course prerequisites. It is recommended that the student take placement tests prior to enrolling in mathematics, reading-intensive, and writing courses. Based on scores, the student may be required to take a series of developmental study courses.
- a) Mathematics courses may include DSMA 0101 Basic Developmental Mathematics, DSMA 0120 Mathematics Lab, DSMA 0300 Developmental Mathematics I, DSMA 0301 Developmental Mathematics II, DSMA 0303 Developmental Mathematics IV, DSMA 0304 Fundamentals of Mathematics II, DSMA 0305 Pre-Algebra, DSMA 0306 Introductory Algebra, DSMA 0307 Intermediate Algebra, DSMA 0309 Fundamentals of Algebra, and/or DSMA 0310 Intermediate Algebra.
- b) Reading courses may include DSRE 0101 Developmental Reading, DSRE 0300 Developmental Reading I, DSRE 0301 Developmental Reading II, DSRE 0302 Fundamentals of Reading I, DSRE 0303 Fundamentals of Reading II, and/or DSRE 0311 Developmental Reading II.
- c) Writing courses may include DSWR 0301 Developmental Writing I, DSWR 0302 Developmental Writing II, DSWR 0303 Fundamentals of Writing I, DSWR 0304 Fundamentals of Writing II, and/or DSWR 0311 Developmental Writing II.

- 7) The non-native English speaking student may be required to take English-as-a-Second Language courses in reading, speaking, and writing.
- a) Reading courses may include DSLA 0310 Reading and Vocabulary II, DSLA 0320 Reading and Vocabulary III, and/or DSLA 0330 Reading and Vocabulary III.
- b) Speaking courses may include DSLA 0323 Academic Listening and Speaking I, DSLA 0322 Academic Listening and Speaking II, DSLA 0332 Academic Listening and Speaking III, and/or DSLA 0340 Accent Reduction.
- c) Writing courses may include DSLA 0314 Writing I, DSLA 0315 Grammar I, DSLA 0318 English for Foreign Students I, and/or DSLA 0321 Writing II.
- 8) Soldiers electing to take the high end semester hour range of a degree requirement area will need to request an ESO override if the total degree credits earned exceed total semester hours required.

*Texas four-year colleges and universities require a physical activity course in the core general education area in the AS degree program. If the student transfers to a Texas college or university to complete a bachelor-level degree program, the student who was awarded physical education credits based on a military service school may be required to take a physical activity course.

Date Effective:	1-Jul-17
Term Effective:	T670