Bachelor of Science – Engineering Innovation and Leadership
Degree Plan - Computer Science Concentration (checklist)

Last Name _____   First Name _____   M.I. _____

UTEP ID _____

NOTE: Overall GPA ≥ 2.0 AND In-Major GPA ≥ 2.0 REQUIRED for graduation

A Core Curriculum (45 SCH) (minimum of "C" grade required)		Semester Completed	Final Grade	SCH	Sub #
1 Communication (6 credit hours required)					
RWS 1301*	Rhetoric and Composition I				
RWS 1302*	Rhetoric and Composition II				
2 Mathematics (4)					
MATH 1411*	Calculus I				
3 Life and Physical Sciences (8)					
PHYS 2320*	Introductory Mechanics				
PHYS 2120*	Laboratory for PHYS 2320				
PHYS 2321*	Introductory Electromagnetism				
PHYS 2121*	Laboratory for PHYS 2321				
4 Language, Philosophy, and Culture (3)					
PHIL 2306*	Ethics				
5 Creative Arts (3)					
Select and circle one:					
ART 1300*, ARTH 1305*, 1306*, CHIC 1311*, DANC 1304*, FILM 1390*, MUSL 1324*, 1327*, 2321*, THEA 1313*					
6 American History (6)					
HIST 1301*	History of the U.S. to 1865				
HIST 1302*	History of the U.S. since 1865				
7 Government/Political Science (6) -- all 6 SCH must be completed at the same institution					
POLS 2310*	Introduction to Politics				
POLS 2311*	American Govt. & Politics				
8 Social and Behavioral Sciences (3)					
CE 2326*	Econ. For Engrs & Scientists				
9 Component Area Option (6)					
EL 1301*	Eng. Innovation & Leadership				
COMM 1302*	Business/Professional Comm				

B Foundational Math & Science (15 SCH)		Semester Completed	Final Grade	SCH	Sub #
CHEM 1305*	General Chemistry				
MATH 1312*	Calculus II				
MATH 2313*	Calculus III				
MATH 2326*	Differential Equations				

H Upper Division Math/Science Elective (3 SCH)		Semester Completed	Final Grade	SCH	Sub #
MATH 3323*	Matrix Algebra				

Sub #	Course on degree plan to substitute	Institution where course was taken	Name of Course as it appears on UTEP Transcript	Course as it appears on UTEP Transcript
ex	EL 1402	Other		ENGR 14TR
1				
2				
3				
4				

C Engineering Leadership Coursework (25 SCH)		Semester Completed	Final Grade	SCH	Sub #
EL 1402*	Fund of Leadership, Design and Graphics				
EL 2301*	Modeling and Simulation				
EL 3302*	Engineering Measurements				
EL 3003*	Professional Practice I				
EL 3005*	Professional Practice II				
EL 3331*	Engineering Design: People to Products				
EL 3332*	Engineering Entrepreneurship: Products to People				
EL 3373* or IE 3373 or EE 3384	Engineering Probability & Stat. Models Engr Probability & Stat Models				
EL 4395*	Capstone Design I: Definition & Exploration				
EL 4396*	Capstone Design II: Development & Evaluation				

D Computer Science Concentration (16 SCH)		Semester Completed	Final Grade	SCH	Sub #
CE 2377 or IE 2377 or MECH 2342	Electro Mechanical Systems				
CE 2338 or MECH 2340	Mechanics II (Dynamics)				
MECH 2311	Intro to Thermal Fluid Science				
MME 2303	Intro to Materials Sci & Engnrg				
MME 2434	Mechanics of Materials				

E Emphasis Courses (15 SCH) for Computer Science Concentration		Semester Completed	Final Grade	SCH	Sub #
CS 1301	Intro to Computer Science				
CS 1101	Intro to Computer Science Lab				
CS 2101	Discrete Structures I				
CS 2202	Discrete Structures II				
CS 2302	Data Structures				
CS 2401	Elem Data Structures and Algorithms				
EL 4171	Undergraduate Seminar				

F Computer Science Technical Electives (9 SCH) see advisor for approved courses		Semester Completed	Final Grade	SCH	Sub #

BSEL Total Hours   125

* -- C or better required

** -- requires submission of official substitution form available at
https://www.utep.edu/engineering/student-resources/student-resources-forms.html

APPROVALS:

ADVISOR _____   DATE _____

CHAIR _____   DATE _____