



**School of Engineering at Southern Methodist University
and
Division of Engineering Technology at Collin County Community College District**

CCCCD – SMU Transfer Equivalencies Guide

**Bachelor of Science
Electrical Engineering Degree**

SMU Courses – General Education Curriculum	CCCCD Equivalencies	Credit Hours
ENGL 1301 – Written English I	ENGL 1301	3
ENGL 1302 – Written English II	ENGL 1302	3
Perspectives – Arts	DRAM 1310 or MUSI 1306	3
Perspectives ¹ – Literature	ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2342, or ENGL 2343	3
Perspectives ^{1,2} – Religious & Philosophical Thought	PHIL 1301, 2303, or 2306	3
Perspectives ² - History	HIST 1301	3
Perspectives ² – Politics & Economics	GOVT 2301	3
Perspectives – Behavioral Sciences	PSYC 2301 or SOCI 1301	3
Wellness I ³	PHED XXXX	1
Wellness II ³	PHED XXXX	1
TOTAL		23

SMU Course – Electrical Engineering Major	CCCCD Equivalencies	Credit Hours
EE 1382 – Fundamentals of Electrical Engineering	ENGR 1201	2
EE 2350 – Circuit Analysis I	ENGR 2305	3
TOTAL		5

SMU Courses – Mathematics	CCCCD Equivalencies	Credit Hours
MATH 1337 – Calculus with Analytic Geometry I	MATH 2413	4
MATH 1338 – Calculus with Analytic Geometry II	MATH 2414	4
MATH 2339 – Calculus with Analytic Geometry III	MATH 2415	4
MATH 2343 – Elementary Differential Equations	MATH 2320	3
TOTAL		15

SMU Courses – General Engineering	CCCCD Equivalencies	Credit Hours
CSE 1341 – Principles of Computer Science I	COSC 2320	3
CSE Elective	COSC 2325	3
ME 1202 – Introduction to Engineering	ENGR 1304	2
ME 1102 – Introduction to Engineering Lab	ENGR 1304	1
ME Elective	ENGR 2301	3
TOTAL		12

SMU Courses – Science	CCCCD Equivalencies	Credit Hours
CHEM 1303 – General Chemistry I	CHEM 1411	4
PHYS 1303 – Introductory Mechanics	PHYS 2425	4
PHYS 1304 – Introductory Electricity & Magnetism	PHYS 2426	3
PHYS 1105 or PHYS 1106	PHYS 2425 or 2426	1
Science Elective (3 SCH)	CHEM 1412	3
TOTAL		15

Total SCH: 70

¹A course from either the *Literature* or *Religious & Philosophical Thought* categories is necessary to fulfill this requirement.

²Students completing the courses in this transfer guide including the course specified in these categories need only to finish HIST 1302 or 2301, SPCH 1311 or 1315 along with GOVT 2302 to be awarded the Associate of Science in Engineering degree at CCCCD.

³Two different one – hour *activity* courses will transfer to meet the WELLNESS requirement.

**Bachelor of Science
Computer Engineering Degree**

SMU Courses – General Education Curriculum	CCCCD Equivalencies	Credit Hours
ENGL 1301 – Written English I	ENGL 1301	3
ENGL 1302 – Written English II	ENGL 1302	3
Perspectives – Arts	DRAM 1310 or MUSI 1306	3
Perspectives ¹ – Literature	ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2342, or ENGL 2343	3
Perspectives ^{1,2} – Religious & Philosophical Thought	PHIL 1301, 2303, or 2306	3
Perspectives ² - History	HIST 1301	3
Perspectives ² – Politics & Economics	GOVT 2301	3
Perspectives – Behavioral Sciences	PSYC 2301 or SOCI 1301	3
Wellness I ³	PHED XXXX	1
Wellness II ³	PHED XXXX	1
TOTAL		23

SMU Courses – Computer Engineering Major	CCCCD Equivalencies	Credit Hours
CSE 1341 – Principles of Computer Science I	COSC 2320	3
CSE 2340 – Assembly Language Programming	COSC 2325	3
TOTAL		6

SMU Courses – Mathematics	CCCCD Equivalencies	Credit Hours
MATH 1337 – Calculus with Analytic Geometry I	MATH 2413	4
MATH 1338 – Calculus with Analytic Geometry II	MATH 2414	4
MATH 2343 – Elementary Differential Equations	MATH 2320	3
TOTAL		11

SMU Courses – Science	CCCCD Equivalencies	Credit Hours
CHEM 1303 – General Chemistry I	CHEM 1411	4
PHYS 1303 – Introductory Mechanics	PHYS 2425	4
PHYS 1304 – Introductory Electricity & Magnetism	PHYS 2426	3
PHYS 1105 or PHYS 1106	PHYS 2425 or 2426	1
Science Elective (3 SCH)	CHEM 1412, BIOL 1406, or GEOL 1403	4
TOTAL		16

Total SCH: 56

¹A course from either the *Literature* or *Religious & Philosophical Thought* categories is necessary to fulfill this requirement.

²Students completing the courses in this transfer guide including the course specified in these categories need only to finish HIST 1302 or 2301, SPCH 1311 or 1315 along with GOVT 2302 to be awarded the Associate of Science in Engineering degree at CCCC.

³Two different one – hour *activity* courses will transfer to meet the WELLNESS requirement.

**Bachelor of Science
Environmental Engineering Degree**

SMU Courses – General Education Curriculum	CCCCD Equivalencies	Credit Hours
ENGL 1301 – Written English I	ENGL 1301	3
ENGL 1302 – Written English II	ENGL 1302	3
Perspectives – Arts	DRAM 1310 or MUSI 1306	3
Perspectives ¹ – Literature	ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2342, or ENGL 2343	3
Perspectives ^{1,2} – Religious & Philosophical Thought	PHIL 1301, 2303, or 2306	3
Perspectives ² - History	HIST 1301	3
Perspectives ² – Politics & Economics	GOVT 2301	3
Perspectives – Behavioral Sciences	PSYC 2301 or SOCI 1301	3
Wellness I ³	PHED XXXX	1
Wellness II ³	PHED XXXX	1
TOTAL		23

SMU Courses – Mathematics	CCCCD Equivalencies	Credit Hours
MATH 1337 – Calculus with Analytic Geometry I	MATH 2413	4
MATH 1338 – Calculus with Analytic Geometry II	MATH 2414	4
MATH 2339 – Calculus with Analytic Geometry III	MATH 2415	4
MATH 2343 – Elementary Differential Equations	MATH 2320	3
TOTAL		15

SMU Courses – General Engineering	CCCCD Equivalencies	Credit Hours
CSE 1341 – Principles of Computer Science I	COSC 2320	3
ME 2310 – Statics	ENGR 2301	3
TOTAL		6

SMU Courses – Science	CCCCD Equivalencies	Credit Hours
CHEM 1303 – General Chemistry I	CHEM 1411	3
CHEM 1113 – General Chemistry Laboratory I	CHEM 1411	1
CHEM 1304 – General Chemistry II	CHEM 1412	3
CHEM 1114 – General Chemistry Laboratory II	CHEM 1412	1
PHYS 1303 – Introductory Mechanics	PHYS 2425	3
PHYS 1105 – General Physics Laboratory I	PHYS 2425	1
GEOL 1315 – Introduction to Environmental Sciences	GEOL 1405	4
BIOL 1401 – Introductory Biology I	BIOL 1406	4
TOTAL		20

Total SCH: 64

¹A course from either the *Literature* or *Religious & Philosophical Thought* categories is necessary to fulfill this requirement.

²Students completing the courses in this transfer guide including the course specified in these categories need only to finish HIST 1302 or 2301, SPCH 1311 or 1315 along with GOVT 2302 to be awarded the Associate of Science in Engineering degree at CCCC.

³Two different one – hour *activity* courses will transfer to meet the WELLNESS requirement.

**Bachelor of Science
Mechanical Engineering Degree**

SMU Courses – General Education Curriculum	CCCCD Equivalencies	Credit Hours
ENGL 1301 – Written English I	ENGL 1301	3
ENGL 1302 – Written English II	ENGL 1302	3
Perspectives – Arts	DRAM 1310 or MUSI 1306	3
Perspectives ¹ – Literature	ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2342, or ENGL 2343	3
Perspectives ^{1,2} – Religious & Philosophical Thought	PHIL 1301, 2303, or 2306	3
Perspectives ² - History	HIST 1301	3
Perspectives ² – Politics & Economics	GOVT 2301	3
Perspectives – Behavioral Sciences	PSYC 2301 or SOCI 1301	3
Wellness I ³	PHED XXXX	1
Wellness II ³	PHED XXXX	1
TOTAL		23

SMU Course – Mechanical Engineering Major	CCCCD Equivalencies	Credit Hours
ME 1202 – Introduction to Engineering	ENGR 1304	2
ME 1102 – Introduction to Engineering Lab	ENGR 1304	1
ME 2310 – Statics	ENGR 2301	3
ME 2320 – Dynamics	ENGR 2302	3
TOTAL		9

SMU Courses – Mathematics	CCCCD Equivalencies	Credit Hours
MATH 1337 – Calculus with Analytic Geometry I	MATH 2413	4
MATH 1338 – Calculus with Analytic Geometry II	MATH 2414	4
MATH 2339 – Calculus with Analytic Geometry III	MATH 2415	4
MATH 2343 – Elementary Differential Equations	MATH 2320	3
TOTAL		15

SMU Courses – Science	CCCCD Equivalencies	Credit Hours
CHEM 1303 – General Chemistry I	CHEM 1411	3
CHEM 1113 – General Chemistry Laboratory I	CHEM 1411	1
PHYS 1303 – Introductory Mechanics	PHYS 2425	3
PHYS 1304 – Introductory Electricity & Magnetism	PHYS 2426	3
PHYS 1105 – General Physics Laboratory I	PHYS 2425	1
PHYS 1106 – General Physics Laboratory II	PHYS 2426	1
TOTAL		12

Total SCH: 59

¹A course from either the *Literature* or *Religious & Philosophical Thought* categories is necessary to fulfill this requirement.

²Students completing the courses in this transfer guide including the course specified in these categories need only to finish HIST 1302 or 2301, SPCH 1311 or 1315 along with GOVT 2302 to be awarded the Associate of Science in Engineering degree at CCCC.

³Two different one – hour *activity* courses will transfer to meet the WELLNESS requirement.