



Texas Wesleyan University & Dallas College  
**Biology with Secondary Life Science Certification (BS)**  
 Transfer Equivalency Worksheet 2020-2021\*



Texas Wesleyan Course #	Course Name	Dallas College Equivalent #	Hours Needed
<b>General Education Requirements (45-46 Hours)</b>			
<b>Language Literacy (12 Hours)</b>			
ENG 1301	Composition & Rhetoric	ENGL 1301	3
ENG 1302	Composition & Literature	ENGL 1302	3
ENG 2324, 2326, 2327, or 2328	One sophomore level literature or creative writing course	ENGL 2307, 2321, 2322, 2323, 2326, 2327, 2328, 2331, 2332, 2333, <b>OR</b> 2341	3
HUM 2340 or 2341	One Interdisciplinary Integrative course	HUMA 1302	3
<b>Analytic Literacy (10-11 Hours)</b>			
One or Two from MAT 1302 and/or higher level math*	One or Two Math courses (College Algebra or higher)	MATH 1314, 1414 <b>OR</b> 1324 and/or higher level math*	3-6
One or Two from BIO, CHE, NSC, PHY	One or Two 4 hour Biology, Chemistry, Natural Science, or Physics lab sciences	BIOL 1406*, 1407*, 1408, 1409, 2401*, 2402*, 2416, 2421*, CHEM 1411*, 1412*, 2423*, 2425, PHYS 1401, 1402, 1403, 1404, ENVR 1401	4-8
<b>Cultural Literacy (12 Hours)</b>			
HIS 2324	Fundamentals of Modern American History	HIST 1302	3
FAR, MUS, or THA	One 3 hour Art, Fine Arts, Music, or Theatre course	ARTS, MUSI, DRAM, HUMA 1315	3
REL 1311, 1312, 1313, 1321, 1323	One 3 hour Religion course	PHIL 1304 or 2306	3
FAR, MUS, THA, HIS 2321, 2301, 2303, PHI 2301, 2321, REL 1311, 1312, 1313, 1321, or SPC 1301	One additional Cultural Literacy Course	ARTS, MUSI, DRAM, HIST 1301, 2321, 2322, PHIL 1301, 1304, 2303, 2307, SPCH 1311, 1315, 1318, 1321	3
<b>Social Literacy (10-11 Hours)</b>			
EXS 1220	Basic Concepts of Health & Physical Education	KINE 1338 or PHED 1164	1
BUA 1301, ECO 2305, FIN 1325, POL 2311, GEG 2304, 2305, IST 2300, PSY 1301, 2342, SOC 1302, 2301, 2302, 2390	Three courses with at least two areas represented	BUSI 1301, ECON 2301, FIN 1325, GOVT 2306, GEOG 1302, 1303, PSYC 2301, ANTH 2346, 2351, SOCI 1301, 1306, 2319	9
<b>Required Related Courses (14-22 Hours) *Some courses listed in Required Related Courses may be used to fulfill GEC.</b>			
BIO 4120	Biology Certification Review		1
ENG 3312	Writing in the Natural Sciences		3
CHE 1415+1415L*	General Chemistry I with Lab*	CHEM 1411*	0-4
CHE 1416+1416L*	General Chemistry II with Lab*	CHEM 1412*	0-4
CHE 2416+2416L	Organic Chemistry I with Lab	CHEM 2423	4
MAT 1310*	Mathematics for Bus & Eco Analysis	MATH 1325*	3
NSC 4301	Teaching Science in the Secondary Classroom		3
<b>Major Requirements (38-46 Hours) *Some courses listed in Major Requirements may be used to fulfill GEC.</b>			
<b>Biology Core (19-27 Hours)</b>			
BIO 1410*	Introduction to Biology I with Lab	BIOL 1406*	0-4
BIO 1420*	Introduction to Biology II with Lab	BIOL 1407*	0-4
BIO 2401*	Anatomy and Physiology I with Lab	BIOL 2401*	0-4
BIO 2402*	Anatomy and Physiology II with Lab	BIOL 2402*	0-4
BIO 2320	Biostatistics		3
BIO 2441	Microbiology with Lab	BIOL 2421	4
BIO 2424	Evolution and Ecology with Lab		4
<i>Note: The entire sequence of core (or its equivalent) and Chemistry CHE 1415+1415L &amp; CHE 1416+1416L must be completed with a grade of C or better before the student is eligible to enroll in advanced biology courses.</i>			
<b>Advanced Biology Courses (19 hours)</b>			
BIO 3431	Molecular Genetics		4
BIO 3352	Research Methods in Biology		3
BIO 3470	Conservation Biology		4
BIO 4412	Molecular Cell Biology		4
BIO 4426	Infection and Immunity		4
<b>Education Requirements (26 Hours)</b>			
<b>Professional Development</b>			
EDU 2100	Foundations of Education		1



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EDU 3310	Studies in Multicultural Education	EDUC 2301	3
EDU 3338	Computers as Classroom Tool		3
<b>EC-6 Pedagogy</b>			
EDU 3432	Instruction, Assessment, and Classroom Management	EDUC 1301	4
EDU 4331	Differentiating Instruction in Mixed-Ability K-12 Classrooms		3
<b>Reading</b>			
RDG 4347	Reading in the Content Area		3
<b>Clinical Teaching</b>			
EDU 4604	Clinical Teaching in Secondary School		6
<b>Electives (0 Hours)</b>			<b>0</b>
<b>Total Hours Needed</b>			<b>128</b>

\*Course equivalencies are subject to change based on the catalog year. For the most up to date information, contact the Office of Admissions at 817-531-4422 or [www.txwes.edu/admissions](http://www.txwes.edu/admissions) Updated: 11/2020