



**Associate in Science in Biotechnology (TCC) to  
Bachelor of Science in Plant Biology: Cell Biology and Molecular Genetics (OSU)**

**TULSA COMMUNITY COLLEGE (years 1 and 2) – 2020-21**

**Year One – Tulsa Community College**

Fall Semester			Spring Semester		
TCC Equivalent or Substitute	OSU Requirement	✓	TCC Equivalent or Substitute	OSU Requirement	✓
ENGL 1113 – Composition I	ENGL 1113		ENGL 1213 – Composition II	ENGL 1213	
POLS 1113 – American Federal Government	POLS 1113		Humanities (3 credit hours)	(H) Humanities	
MATH 1513* – Precalculus I (A)	MATH 1513 (A)		CHEM 1315– General Chemistry I	CHEM 1314 (LN) + 1 - - 1 (LN)	
BIOT 1113 – Introduction to Biotechnology	MICR 1- - 3 (general elective)		BIOT 1533 – Cell Culture Techniques	MICR 1- -3 (general elective)	
BIOL 1224 – Introduction to Biology for Majors	BIOL 1114 (LN)				
<b>Semester Credit Hours at TCC: 16</b>			<b>Semester Credit Hours at TCC: 14</b>		

\*OSU requires MATH 1613 or higher for this degree program. If a student places into MATH 1613 or MATH 1715, it is recommended that they take one of those courses at TCC for their General Education Math. If a student takes MATH 1513, an additional Math course will be needed at OSU.

**Year Two – Tulsa Community College**

Fall Semester			Spring Semester		
TCC Equivalent or Substitute	OSU Requirement	✓	TCC Equivalent or Substitute	OSU Requirement	✓
Humanities (3 credit hours)	(H) Humanities		HIST 1483 – Am Hist 1492 - Civil War or HIST 1493 – Am Hist Civil War - now	HIST 1483 (H) or HIST 1493 (DH)	
BIOT 2245 – Molecular Biology and Techniques	MICR 2- -5 (general elective)		BIOT 2334 – Biotechnology Proteomics & Instrumentation	MICR 2- -4 (general elective)	
CHEM 1415– General Chemistry II	CHEM 1515 (LN)		BIOL 2164 – Microbiology	MICR 2123 (N) & MICR 2132 (LN)	
General Education Required Elective (3 credit hours)	Social Science (waived with AS degree)		BIOL 1404 – General Botany	PBIO 1404 (LN)	
<b>Semester Credit Hours at TCC: 16</b>			<b>Semester Credit Hours at TCC: 15</b>		

Before transferring to OSU, have the TCC Registrar send an official transcript to the OSU Admissions Office with any degrees earned noted on the transcript. If you have not completed the requirements for an associate degree, talk with your OSU Academic Advisor about Reverse Transfer options to use OSU coursework to complete your TCC associate degree.

**OKLAHOMA STATE UNIVERSITY (years 3 and 4) – 2020-21**

<b>Year Three – Oklahoma State University</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
<b>OSU Requirement</b>	✓	<b>OSU Requirement</b>	✓
PHYS 1114 – College Physics		PBIO 4463 – Plant Physiology	
Upper-Division Related course (3 credit hours)		STAT 4013 Statistical Methods I or STAT 2013 – Elementary Statistics	
PBIO 4233 – Plant Anatomy		Chem 3112 -Organic Chemistry Laboratory	
CHEM 3053 – Organic Chemistry I		CHEM 3153 – Organic Chemistry II	
MATH 1613 – Trigonometry or 3 hours elective if already completed		Upper-Division Arts & Humanities with (I) International Designation (3 credit hours)	
<b>Semester Credit Hours at OSU: 16</b>		<b>Semester Credit Hours at OSU: 14</b>	

<b>Year Four – Oklahoma State University</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
<b>OSU Requirement</b>	✓	<b>OSU Requirement</b>	✓
PBIO 4400(1) – Undergraduate Research		BIOL 4133 – Evolution	
BIOL 3023 – General Genetics		Upper-Division Related course (4 credit hours)	
Upper-Division Related course (3 credit hours)		Upper-Division General Education outside of major (3 credit hours)	
PBIO major course (4 credit hours)		PBIO major course (3 credit hours)	
General Elective (3 credit hours) – may need to be Upper-Division		Upper-Division General Education outside of major with (D) Diversity Designation (3 credit hours)	
<b>Semester Credit Hours at OSU: 14</b>		<b>Semester Credit Hours at OSU: 16</b>	

This is just one example of how a student may complete the degree.

Important Note: The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second-year level of study). It may also be satisfied by 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.

