

**Associate in Science in Physics (TCC) to  
Bachelor of Science in Physics (OSU)**  
Available in Stillwater

**Tulsa Community College (years 1 and 2) – 2022-23**

**Year One – Tulsa Community College**

*Fall*

TCC Equivalent or Substitute	OSU Requirement	✓
ENGL 1113 – Composition I	ENGL 1113	
HIST 1483 – Am Hist 1492 - Civil War or HIST 1493 – Am Hist Civil War - now	HIST 1483 (H) or HIST 1493 (DH)	
*MATH 2114 – Analytic Geometry and Calculus I	MATH 2144 (A)	
3 hours General Education Recommended Elective (not PHYS)	(A, H, N, or S) Additional General Education	
<b>Semester Credit Hours at TCC: 13</b>		

*Spring*

TCC Equivalent or Substitute	OSU Requirement	✓
ENGL 1213 – Composition II	ENGL 1213	
POLS 1113 – American Federal Government	POLS 1113	
MATH 2124 – Analytic Geometry and Calculus II	MATH 2153 (A) + 1 hour general elective	
Select one 3-hour course from the following: Psychology, Social Sciences, Foreign Language, or Fine Arts (Art, Music, Theatre).	3 hours general elective	
Humanities (3 credit hours)	(H) Humanities	
<b>Semester Credit Hours at TCC: 16</b>		

\*Additional preparatory course work may be required if students do not meet a minimum placement score on a secondary placement test. In this case, the total credit hours required to complete the degree will exceed 120. If additional Math is required, it will fill any open General Education electives. If General Education electives have already been met, then this degree could require up to 65-66 hours to complete. See your academic advisor for more information.

**Year Two- Tulsa Community College**

*Fall*

TCC Equivalent or Substitute	OSU Requirement	✓
Humanities (3 credit hours)	(H) Humanities	
MATH 2134 – Analytic Geometry and Calculus III Recommended Elective	MATH 2163 (A) + 1 hour Additional General Education	
PHYS 2034 – Physics I with Calculus	PHYS 2014 (LN)	
CHEM 1315 – General Chemistry I	CHEM 1314 (LN) + 1 hour Additional General Education	
<b>Semester Credit Hours at TCC: 16</b>		

*Spring*

TCC Equivalent or Substitute	OSU Requirement	✓
Recommended Elective (3 credit hours) (not PHYS)	3 hours general elective	
MATH 2613 – Elementary Differential Equations Recommended Elective	MATH 2233	
PHYS 2124 – Physics II with Calculus	PHYS 2114 (LN)	
CHEM 1415 – General Chemistry II	CHEM 1515 (LN)	
<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) – 2022-23

## Year Three – Oklahoma State University

Fall

OSU Requirement	✓
PHYS 3013 – Mechanics I	
PHYS 3323 – Modern Laboratory Methods I	
3 hours Upper-Division Related (not PHYS)	
3 hours Natural Science (N) (not PHYS)	
3 hour Upper-Division Social Sciences with (I) International Designation (not PHYS)	
<b>Semester Credit Hours at OSU: 15</b>	

Spring

OSU Requirement	✓
PHYS 2203 – University Physics III	
PHYS 3623 – Modern Laboratory Methods II	
PHYS 3513 – Mathematical Physics	
3 hours Upper-Division Related (not PHYS)	
3 hours Upper-Division General Education with (D) Diversity Designation (not PHYS)	
<b>Semester Credit Hours at OSU: 15</b>	

## Year Four – Oklahoma State University

Fall

OSU Requirement	✓
PHYS 3713 – Modern Physics	
PHYS 4113 – Electricity and Magnetism	
3 hours Upper-Division PHYS	
3 hours Upper-Division PHYS	
3 hours Arts and Humanities	
<b>Semester Credit Hours at OSU: 15</b>	

Spring

OSU Requirement	✓
PHYS 4513 – Introductory Quantum Mechanics	
PHYS 4813 – Electromagnetic Radiation	
PHYS 4712 – Senior Project	
4 hours general elective (not PHYS)	
3 hours Upper-Division PHYS	
<b>Semester Credit Hours at OSU: 15</b>	

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.

*Christopher A. Francisco*

Dr. Chris Francisco, Vice Provost, OSU Date

*Keith Garbutt*

Dr. Keith Garbutt, Interim Dean, College of Arts & Sciences, OSU Date

*Andrew Doust*

Dr. Andrew Doust, Associate Dean, College of Arts & Sciences, OSU Date

*Flera Rizatdinova*

Dr. Flera Rizatdinova, Head, Physics, OSU Date

*Kristopher Copeland*

Dr. Kristopher Copeland, Associate VP Academic Affairs, TCC Date

*Julie Porterfield*

Julie Porterfield, Dean of Science & Aeronautics, TCC Date

*Lori J. Mayberry*

Lori Mayberry, Chair, Physical Sciences, TCC Date














# TCC to OSU - Physics BS 22-23


Final Audit Report


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