

The following table outlines how transfer credits will be applied to the Bachelor of Science in Physics degree at Wright State University for students who completed an Associate of Science degree via the Ohio Guaranteed Physics Transfer Pathway. The OGTP designation guarantees the transfer and applicability of credits, but does not guarantee admission to a program. Some bachelor-degree granting programs may be competitive, and students should check with individual institutions for their program admission requirements.

COURSE EQUIVALENCIES FROM THE ASSOCIATE DEGREE	Course Number	Credit Hours
GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		
Any Ohio Transfer 36 approved First Writing (TME001) course	ENG 1100	3
Calculus I (TMM005)	MTH 2300	4
Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Social and Behavioral Sciences course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Social and Behavioral Sciences course	Ohio Transfer 36 Elective*	3
Calculus-Based Physics I with lab (OSC016)	PHY 2400/L	5
Calculus-Based Physics II with lab (OSC017)	PHY 2410/L	5
Calculus II (TMM006)	MTH 2310	4
General Chemistry I with lab (OSC008)	CHM 1210/L (under review) ¹	5
Ohio Transfer 36 Approved Elective [Recommended: Any Ohio Transfer 36 approved Second Writing (TME002) course or General Chemistry II (OSC009)]	Ohio Transfer 36 Elective or ENG 2100	3
PRE-MAJOR/BEGINNING MAJOR		
Calculus III (OMT018)	MTH 2320	4
Elementary Linear Algebra (OMT019)	MTH 2530	3
Elementary Differential Equations (OMT020)	MTH 2330	3
OTHER RECOMMENDATIONS		
General Chemistry II with lab (OSC009) (if not taken as part of the Ohio Transfer 36)	CHM 1220/L	5
General Electives	Varies*	4
TOTAL HOURS FROM ASSOCIATE DEGREE:		60-65
Advising Notes: (*) Indicates that coursework will be evaluated for applicable equivalency upon transfer at the university. If a Transfer Assurance Guide (TAG) course is taken, the approved course equivalency will be awarded. ¹ "Under review" indicates that the course does not currently carry the statewide course equivalency guarantee. However, the institution is working towards this goal and will act in good faith to ensure the appropriate equivalency is given that counts toward the degree.		

SPECIAL NOTES

Students with plans of pursuing a pre-professional or graduate studies track in the future should work closely with their academic advisor and receiving institution starting in the first year of their program in order to adequately prepare themselves for those types of tracks. Some pre-professional degrees include pre-medicine, pre-veterinary, pre-law, and pre-dentistry.

The following additional coursework will be required to complete the Bachelor of Science in Physics degree at Wright State University after a student has completed their Associate of Science Ohio Guaranteed Physics Transfer Pathway degree. Some bachelor-degree granting programs may be competitive and admission into the program is not guaranteed. Students should check with individual institutions for their program admission requirements.

REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE		Course Number	Credit Hours
Departmental Core Requirements:	Undergraduate Physics Seminar I	PHY 1000	1
Departmental Core Requirements:	Undergraduate Physics Seminar II	PHY 1010	1
Departmental Core Requirements:	Introduction to Modern Physics	PHY 2420	3
Departmental Core Requirements:	Analytical Mechanics	PHY 3710	3
Departmental Core Requirements:	Electricity and Magnetism I	PHY 4500	3
Departmental Core Requirements:	Electricity and Magnetism II	PHY 4510	3
Departmental Core Requirements:	Physics Instrumentation	PHY 3150	3
Departmental Core Requirements:	Applied Optics	PHY 3220	3
Departmental Core Requirements:	Advanced Physics Laboratory I	PHY 3500	2
Departmental Core Requirements:	Advanced Physics Laboratory II	PHY 3510	2
Departmental Requirements and Electives:	Introduction to Quantum Mechanics I	PHY 4600	3
Departmental Requirements and Electives:	Introduction to Quantum Mechanics II	PHY 4610	3
Departmental Requirements and Electives:	Statistical Mechanics	PHY 4830	3
Departmental Requirements and Electives:	Senior Project	PHY 4920	6
Related Course Requirements:	Complex Variables	MTH 3320	3
Related Course Requirements:	Partial Differential Equations	MTH 3330	3
General Electives:	General Electives	Varies	15
REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL:¹			60
Advising Notes: ¹ Wright State University requires a total of 120 credit hours for degree completion. The total number of hours to complete a bachelor's degree represents a range of hours that may be needed depending on the individual course selections made during the associate degree program.			

COMPLETE BACHELOR'S DEGREE	Total Credit Hours
BACHELOR'S DEGREE TOTAL:	120

SPECIAL NOTES

For more information, please contact:

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SAMPLE DEGREE MAP

THIRD YEAR

SEMESTER 5		SEMESTER 6	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
PHY 1000 Undergraduate Physics Seminar I	1	PHY 2420 Undergraduate Physics Seminar II	1
PHY 2420 Introduction to Modern Physics	3	PHY 3220 Applied Optics	3
PHY 3150 Physics Instrumentation	3	PHY 3710 Analytical Mechanics	3
MTH 3320 Complex Variables	3	PHY 3500 Advanced Physics Laboratory I	2
General Elective	3	MTH 3330 Partial Differential Equations	3
General Elective	2	General Elective	3
Total Semester 5 Credit Hours	15	Total Semester 6 Credit Hours	15

FOURTH YEAR

SEMESTER 7		SEMESTER 8	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
PHY 4500 Electricity and Magnetism I	3	PHY 4510 Electricity and Magnetism II	3
PHY 3510 Advanced Physics Laboratory II	2	PHY 4830 Statistical Mechanics	3
PHY 4600 Introduction to Quantum Mechanics I	3	PHY 4610 Introduction to Quantum Mechanics II	3
PHY 4920 Senior Project	3	PHY 4920 Senior Project	3
General Elective	4	General Elective	3
Total Semester 7 Credit Hours	15	Total Semester 8 Credit Hours	15