

**APPENDIX 1  
ARTICULATION AND TRANSFER TABLE**

Cuyahoga Community College: Associate of Arts  
Kent State University: Bachelor of Arts in Physics

<b>EQUIVALENCIES CURRENTLY ON THE TRAFNER TABLES</b>			
<b>Cuyahoga Community College</b>	<b>Credits</b>	<b>KENT STATE UNIVERSITY</b>	<b>Credits</b>
<b>OTM English Composition</b>		<b>Kent Core Composition (6 credits)</b>	
ENG 1010 College Composition I	3	ENG 11011 College Writing I	3
ENG 1020 College Composition II	3	ENG 21011 College Writing II	3
<b>OTM Mathematics, Statics and Logic</b>		<b>Kent Core Math/Critical Reasoning (3 credits)</b>	
MATH 1540 Trigonometry	3	MATH 11022	3
<b>OTHM Arts and Humanities</b>		<b>Kent Core Humanities or Fine Arts (6 credits)</b>	
Numerous course options available*	6		6
<b>OTM Social and Behavioral Sciences</b>		<b>Kent Core Social Sciences (6 credits)</b>	
	3		3
Numerous course options available*	3	One course in another area of study*	3
<b>OTM Natural Sciences</b>		<b>Kent Core Basic Sciences (6 credits)</b>	
PHYS 2310 General Physics I	5	PHY 23101 General University Physics I	5
PHYS 2320 General Physics II	5	PHY 23102 General University Physics II	5
<b>OTM (additional)</b>		<b>Kent Core Additional (9 credits)</b>	
COMM 1010 Fundamentals of Speech	3	COMM 15000 Introduction to Human Communication	3
MATH 1610 Calculus I	5	MATH 12002 Analytic Geometry and Calculus I	5
MATH 1620 Calculus II	5	MATH 12003 Analytic Geometry and Calculus II	5
		<b>College General Requirements</b>	
Numerous course options available (not PHYS)*	3	Additional OTM Basic Science (not PHY)	3
Numerous course options available*	3	Additional OTM Social Science	3
Beginning I Foreign Language	4	Elementary I Foreign Language	4
Beginning II Foreign Language	4	Elementary II Foreign Language	4
*Several options available		Foreign Language – can be Elementary I & II of a second language or Intermediate I & II of the first language or unique Kent State cultural awareness courses	6-8
		<b>Additional Degree Requirements</b>	
Lower-division electives	4	Lower-division general electives	4
		<b>PROGRAM REQUIREMENTS TO BE COMPLETED AT KENT STATE UNIVERSITY (no equivalent at Cuyahoga Community College)</b>	
		PHY 12001 Introductory Physics Seminar	1
		PHY 30020 Intermediate Physics Lab	2
		PHY 35101 Classical Mechanics	4
		PHY 36001 Introductory Modern Physics	3
		PHY 36002 Applications of Modern Physics	3
		PHY 40020 Advanced Physics Lab	2
		PHY 45201 Electromagnetic Theory	4
		MATH 32051 Math Methods in the Phys Sciences I	4
		MATH 32052 Math Methods in the Phys Sciences II	4

		Upper-division Physics Electives	8
		General Electives	11
		Upper-division General Electives	8

*\* Students should select one course that is designated global diversity and one that is designated domestic diversity*

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**APPENDIX 2  
SUGGESTED SEMESTER SEQUENCE**

Cuyahoga Community College: Associate of Arts  
Kent State University: Bachelor of Arts in Physics

Course Subject and Title	Credit Hours	Upper Division	Notes on Transfer Coursework to Kent State
<b>Semester One: [15-16 Credit Hours] Cuyahoga Community College</b>			
ENG 1010/101H College Composition I	3		Required for AS and Transfer Module
Foreign Language	3-4		Applied toward AS; Required for BA
Social/Behavioral Elective	3		Required for AS and Transfer Module; Select from Transfer Module courses
General Elective	3		Required for AS (60 total hours required); Applied toward BA (120 total hours required)
MATH 1540 Trigonometry, if necessary	3		Required for AS (60 total hours required) and Transfer Module; Applied toward BA (120 total hours required)
<b>Semester Two: [17-18 Credit Hours] Cuyahoga Community College</b>			
ENG 1020 /102H College Composition II	3		Required for AS and Transfer Module
Foreign Language	3-4		Applied toward AS; Required for BA
Arts/Humanities Elective	3		Required for AS and Transfer Module; Select from Transfer Module courses
MATH 1610 Calculus I	5		Required for AS (60 total hours required) and Transfer Module; Applied toward BA (120 total hours required)
General Elective*	3		Required for AS (60 total hours required); Applied toward BA (120 total hours required)
<b>Semester Three: [16 Credit Hours] Cuyahoga Community College</b>			
COMM 1010 Fundamentals of Speech	3		Required for AS and Transfer Module
MATH 1620 Calculus II	5		Applied toward AS and Transfer Module; Required for BA
PHYS 2310 General Physics I	5		Applied toward AS and Transfer Module; Required for BA
Social/Behavioral Elective	3		Required for AS and Transfer Module; Select from Transfer Module courses
<b>Semester Four: [14 Credit Hours] Cuyahoga Community College</b>			
PHYS 2320 General Physics II	5		Applied toward AS and Transfer Module; Required for BA
Arts/Humanities Elective	3		Required for AS and Transfer Module; Select from Transfer Module courses
General Elective*	3		Applied toward AS and BA
Social/Behavioral Elective	3		Applied toward AS and Transfer Module
<b>62-64 Total Credit Hours to Graduate with the AS Degree from Cuyahoga Community College</b>			

\*Additional OTM courses in Social Science and Natural Science (NOT PHYS) will fulfill the College of Arts and Science General Requirement in Social Science and Basic Science.

Course Subject and Title	Credit Hours	Upper Division	Notes on Transfer Coursework to Kent State
<b>Semester Five: [14 Credit Hours] Kent State University</b>			
PHY 12000 Introductory Physics Seminar	1	X	Required in major
MATH 32051 Math Methods in Physical Sciences I	4	X	Required in major
Foreign Language	3		
General Electives	6		
<b>Semester Six: [15 Credit Hours] Kent State University</b>			
MATH 32052 Math Methods in Physical Sciences II	4	X	Required in major
Foreign Language	3		
PHY 36001 Introductory Modern Physics	3	X	Required in major
General Elective – Upper Division	5	X	
<b>Semester Seven: [15 Credit Hours] Kent State University</b>			
PHY 30020 Intermediate Physics Lab	2	X	Required in major
PHY 35101 Classical Mechanics	4	X	Required in major
PHY 36002 Applications of Modern Physics	3	X	Required in major
PHY 45201 Electromagnetic Theory	4	X	Required in major
General Electives – Upper Division	2	X	
<b>Semester Eight: [16 Credit Hours] Kent State University</b>			
PHY 40020 Advanced Physics Lab	2	X	Required in major
Physics Electives – Upper Division	8	X	Required in major
General Electives – (1 credit must be Upper Division)	6		
<b>120-122 Total Credit Hours to Graduate with the BS, including transfer coursework, from Kent State University</b>			

Requirements to graduate with the BA degree program: To graduate, students must have minimum 120 credit hours, 42 upper-division credits hours of coursework, a minimum 2.00 major GPA and minimum 2.00 cumulative GPA. They must also fulfill an approved experiential learning experience, a two-course diversity requirement (domestic and global), complete a writing intensive course with a minimum C (2.000) grade. Please be aware of Kent State's residence policy, which can be found in the [Kent State University Catalog](#). More specific graduation requirement information can be found in the Academic Policies section of the Kent State University Catalog ([www.kent.edu/catalog](http://www.kent.edu/catalog)).

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It is recommended that students intending to pursue the Bachelor of Arts in Physics through Kent State University consult with academic advisors at both Cuyahoga Community College and Kent State University.