


# East Central University/Murray State College Articulation Agreement

## Bachelor of Science: Physics

### Medical Physics Concentration Catalog Year 2017-2018

Associate of Science—Chemistry (Physics)	Bachelor of Science—Physics
<input type="checkbox"/> COL 1211 Academic Success	<input type="checkbox"/> PHYS 3013 Modern Physics
<input type="checkbox"/> ENG 1113 English Comp I	<input type="checkbox"/> PHYS —3 Required Physics Elective
<input type="checkbox"/> HST 1483 U.S. History to 1865 <b>OR</b> HST 1493 U.S. History since 1865	<input type="checkbox"/> MATH 3025 Calculus & Analytic Geometry II
<input type="checkbox"/> MTH 1513 College Algebra*	<input type="checkbox"/> BIOL 2184 Human Anatomy <span style="float: right;">15</span>
<input type="checkbox"/> MTH 1613 Plane Trigonometry*	<hr/>
<input type="checkbox"/> BIO 1114 Principals of Biology <span style="float: right;">17</span>	<input type="checkbox"/> PHYS —3 Required Physics Elective 3000-4000 Level
<hr/>	<input type="checkbox"/> PHYS 3412 Junior Physics Laboratory
<input type="checkbox"/> ENG 1213 English Comp II	<input type="checkbox"/> BIOL 3634 Human Physiology
<input type="checkbox"/> MTH 2215 Calculus I w/ Analytic Geometry*	<input type="checkbox"/> MATH 3033 Calculus & Analytic Geometry III
<input type="checkbox"/> ZOO 1114 General Zoology*	<input type="checkbox"/> HIM 2113 Medical Terminology <b>OR</b> EHS 2413 Radiologic Health <span style="float: right;">14</span>
<input type="checkbox"/> CS 1613 Programming I*	<hr/>
<input type="checkbox"/> HWP 1112 Personal Health <span style="float: right;">17</span>	<input type="checkbox"/> ENG 3183 Technical & Professional Writing
<hr/>	<input type="checkbox"/> —2 Required Physics Elective 3000-4000 Level
<input type="checkbox"/> PHY 2015 Engineering Physics I*	<input type="checkbox"/> MATH 4113 Differential Equations
<input type="checkbox"/> CHM 1114 Gen Chemistry I*	<input type="checkbox"/> COMM 2253 Communication in the Workplace
<input type="checkbox"/> SPC 1113 Fundamentals of Speech	<input type="checkbox"/> CHEM 3114 Organic Chemistry I <span style="float: right;">16</span>
<input type="checkbox"/> PSY 1113 Intro to Psychology <b>OR</b> SOC 1113 Intro to Sociology	<hr/>
<input type="checkbox"/> —3 Cultural & Global Education <span style="float: right;">18</span>	<input type="checkbox"/> PHYS 4313 Intro to Nuclear Physics
<hr/>	<input type="checkbox"/> PHYS 3713 Thermodynamics
<input type="checkbox"/> PHY 2115 Engineering Physics II*	<input type="checkbox"/> PHYS 4222 X-Ray & Nuclear Lab
<input type="checkbox"/> CHM 1214 General Chemistry II*	<input type="checkbox"/> PHYS 3222 Medical Physics
<input type="checkbox"/> GVT 1113 American Federal Government	<input type="checkbox"/> MATH 3513 Mathematical Statistics
<input type="checkbox"/> —3 Cultural & Global Education <span style="float: right;">15</span>	<input type="checkbox"/> —2 Elective <span style="float: right;">15</span>
<hr/>	<hr/>
Total Credit Hours <span style="float: right;">67</span>	Total Credit Hours <span style="float: right;">60</span>
* please see chart on second page for course equivalencies	

**Total Credit Hours Required for BS Degree: 124**  
**Total Hours Completed: 128**

# *East Central University/Murray State College Articulation Agreement*

## **Bachelor of Science: Physics**

### **Medical Physics Concentration**

### **Course Equivalency Table**

<b>Murray State College</b>	<b>East Central University</b>
CHM 1114 Gen Chemistry I	CHEM 1114 General Chemistry I
CHM 1214 Gen Chemistry II	CHEM 1214 General Chemistry II
MTH 1513 College Algebra	MATH 1513 College Algebra
MTH 1613 Plane Trigonometry	MATH 1713 Trigonometry
MTH 2215 Calculus I w/ Analytic Geometry	MATH 2825 Calculus and Analytic Geometry I
CS 1613 Programming I	CMPSC 1113 Computer Programming I
PHY 2015 Engineering Physics I	PHYS 2115 Engineering Physics I
PHY 2115 Engineering Physics II	PHYS 2225 Engineering Physics II
ZOO 1114 General Zoology	BIOL 1314 General Zoology

Articulated using MSC's A. S in Chemistry (Physics).

General Education equivalencies can be found by referring to either the Oklahoma State Regents Transfer Matrix or the ECU Transfer Matrix. Both matrices can be found at [www.ecok.edu](http://www.ecok.edu) by clicking on *Academics* and scrolling down to *Course Transfer Ma-*

Articulated without a minor. A minor is not required, please see an advisor for appropriate courses.

**\*\*Will transfer as course content but not for upper level credit: Student should meet with an ECU advisor for more information.**

#### **NOTES:**

A student transferring with an Associate degree in Arts or Science from MSC fulfills ECU's general education requirement by transferring his or her credit to East Central University. Transferring credit for general education does not eliminate or otherwise affect any of the following ECU requirements: (1) prerequisites; (2) specific requirements in majors, minors or related work in these areas; or (3) the requirements for teacher certification.

A student must earn at least 40 semester hours in upper-division courses (numbered 3000 or higher). A course taught at MSC may equate in content to an ECU 3000-4000 level course, but it will not be counted as part of the 40 hours of upper level courses.

A student must earn at least 60 semester hours, excluding physical activity courses, at a baccalaureate degree granting institution.